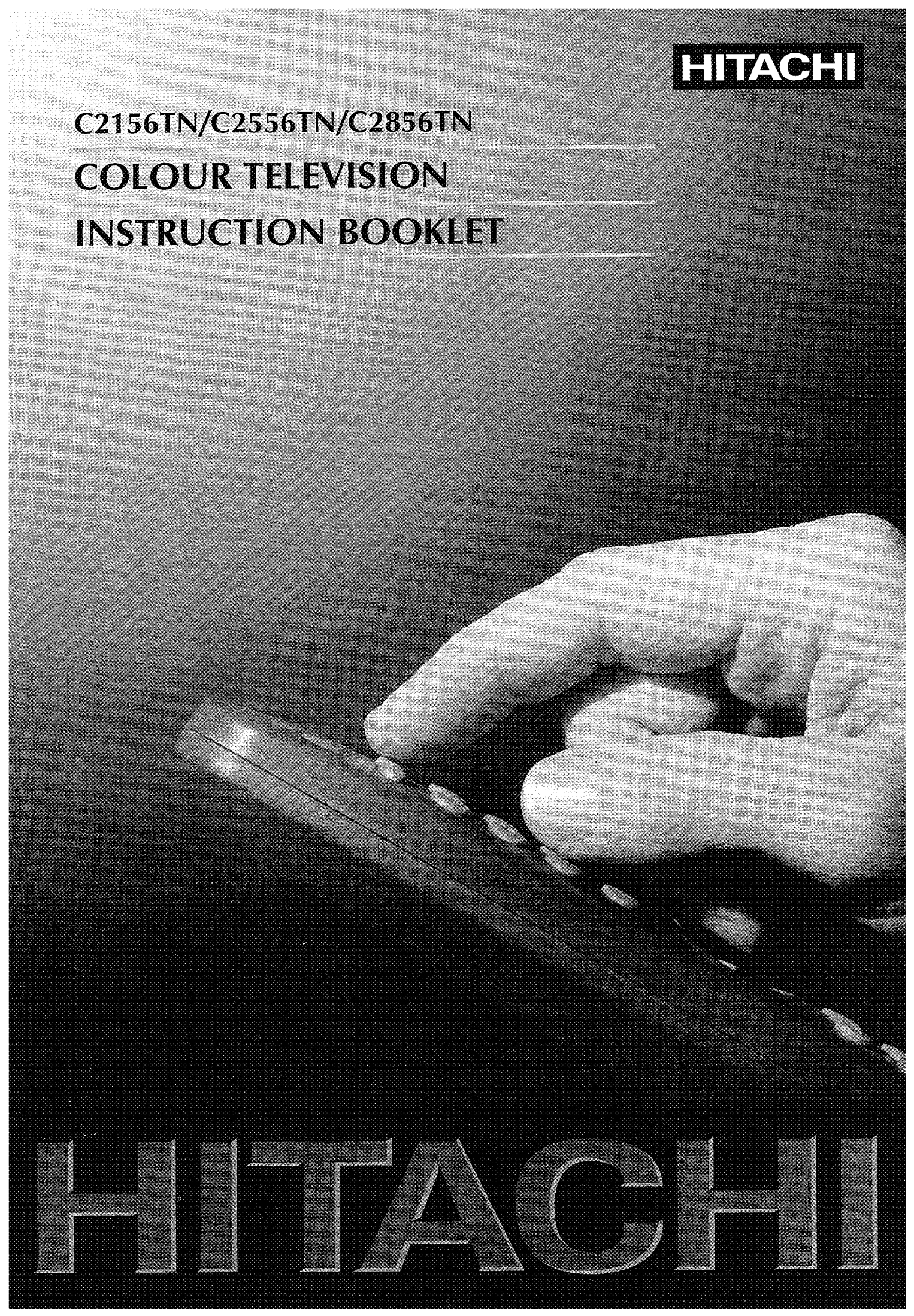
HITACHI

C2156TN/C2556TN/C2856TN

COLOUR TELEVISION INSTRUCTION BOOKLET

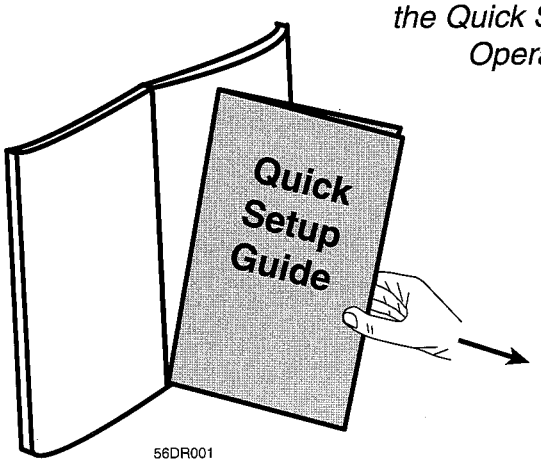


HITACHI

Dear Hitachi Customer,

Congratulations on your purchase of the very latest 'state of the art' television from HITACHI. At Hitachi we pride ourselves on producing high quality televisions with outstanding picture and audio capabilities, coupled with Hitachi's reputation for superior reliability.

In the centre of this manual you will find the blue coloured Quick Setup pullout section. This guide will enable you to setup your TV easily and quickly. Once you have setup the TV then the Quick Setup Guide may be discarded, however, please retain the Main Operating Guide for future reference.



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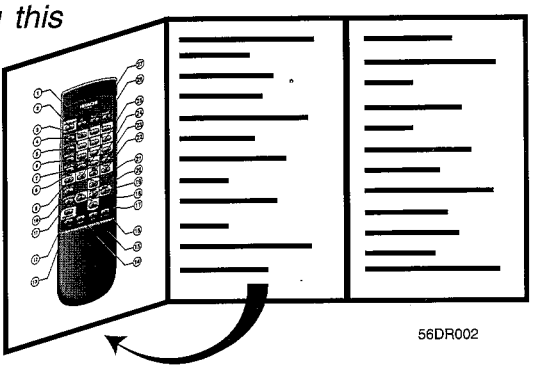
In the Main Operating Guide there is a fold out section on page 3. This page contains a numbered guide for the remote control handset. While following this manual, fold out this section, this will enable you to easily reference between the manual and the remote control handset.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You should enjoy many years of trouble free operation from your TV. Take some time to read the Operating Guide thoroughly, and if you encounter any difficulty, firstly refer to the Trouble Shooting guide at the rear of this manual. If, in the unlikely event of a problem occurring on your TV, contact your dealer immediately. Please read the Guarantee carefully, this is found on page 22.

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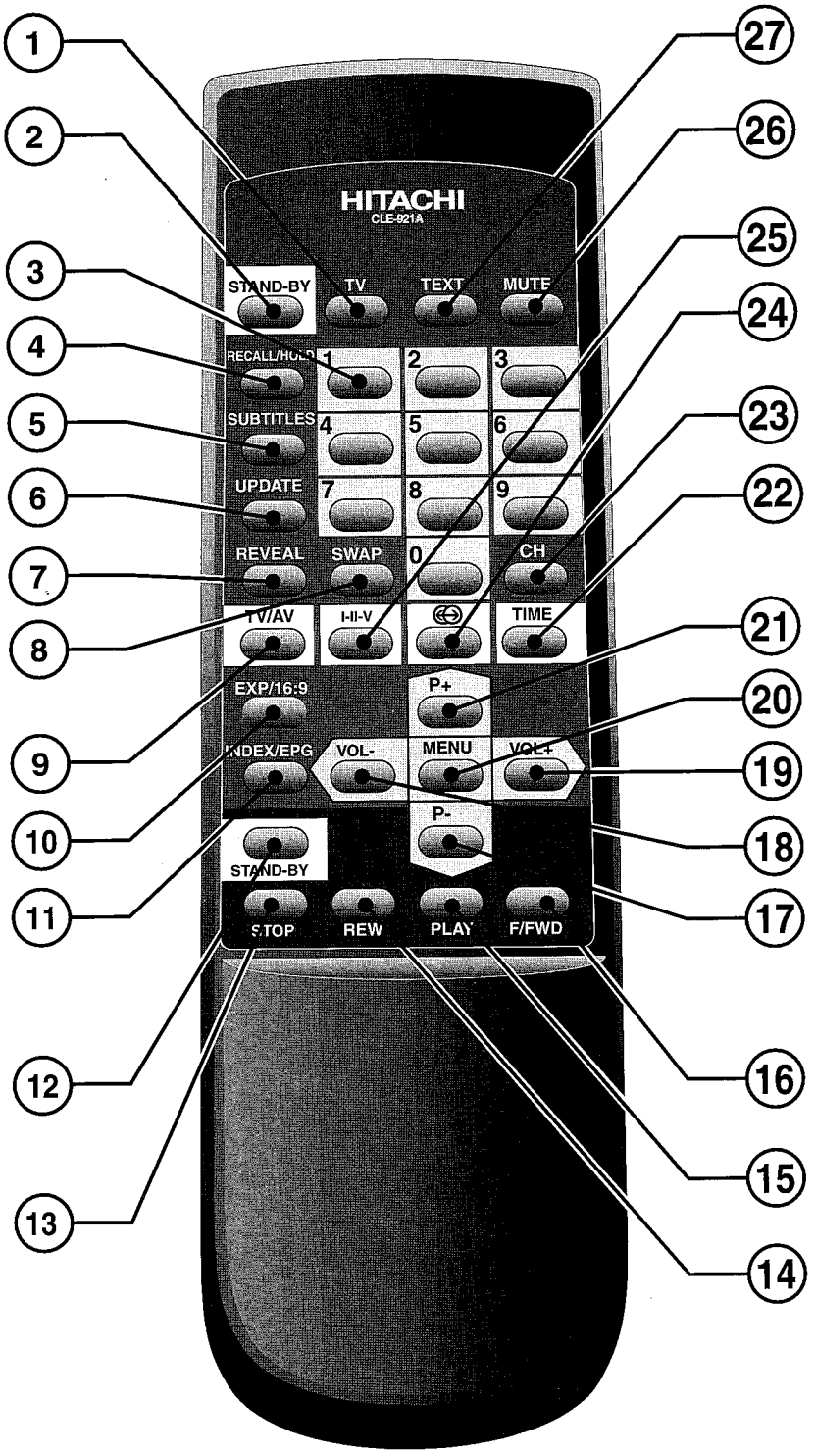
Handset Layout



Handset Functions

The remote control handset supplied has several dual functions. These functions are mainly used for operations whilst in teletext mode. The Teletext modes and functions are in ***Bold Italic type*** and all functions are briefly explained below.

Button Nº	Description	Function
1	TV Button -	This enables the viewer to return to normal TV operation.
2	Stand-by Button	Used to switch the TV on and off for short periods of time. Use ON/OFF button on TV for longer periods of inactivity (see environmental notes on page 24)
3	Buttons 0-9	Used for direct programme selection (enter a second digit within 2 seconds for programme numbers above 10 i.e. to obtain programme number 29 enter 2 and then 9). ***Teletext 3 digit entry.***
4	Recall/***Hold****	Press Recall to view current TV status. ***Press Hold to freeze Teletext pages.***
5	***Subtitles Button****	***Allows the user to access a subtitle service directly rather than through Teletext (subject to Subtitle service broadcasting).***
6	***Update Button****	***The Update button restores the TV screen whilst a Teletext page is searched.***
7	***Reveal Button****	***Used whilst in Teletext mode to reveal hidden pages i.e. quiz pages etc..***
8	Swap Button*	In TV mode swaps between previous and current programme numbers. ***In Teletext mode this feature allows the user to recall the last 4 Teletext pages.***
9	TV/AV Button	The TV/AV button allows the user to select either a TV or external source signal i.e. a camcorder etc.. ***This button also has a colour coded teletext function*** and OSD† function.
10	16:9/***EXP****	Used to select between 16 x 9 and 4 x 3 formats. ***Used to expand text pages.***
11	EPG/***INDEX****	***The INDEX function is used whilst in Fastext mode and displays the magazine page on view.*** The EPG function is not available on this model.
		Please Note: The following VCR controls operate Hitachi VCR equipment only.
12	Stand-by Button	Used to switch the VCR on and off for short periods of time.
13	Stop Button	Press to stop the VCR tape.
14	Rew Button	Press to rewind a VCR tape.
15	Play Button	Press to play a VCR tape.
16	F/Fwd Button	Press to fast forward a VCR tape.
17	*P-/Cursor Down	When in normal TV operation this button allows the user to step down programme numbers in sequence. In MENU mode this button is the cursor down key.
18	Vol-/Cursor Left	When in normal TV operation this button allows the user to reduce the TV volume. In MENU mode this button is the cursor left key.
19	Vol+/Cursor Right	When in normal TV operation this button allows the user to increase the TV volume. In MENU mode this button is the cursor right key.
20	MENU Button	The MENU button when pressed allows the user to access the TV's menu system.
21	*P+/Cursor Up	When in normal TV operation this button allows the user to step up programme numbers in sequence. In MENU mode this button is the cursor up key. ***The P+/P- buttons can also step forward or back a page whilst in Teletext mode.***
22	Time Button*	This button allows the user to display the current time on-screen, ***also has a colour coded teletext function*** and OSD† function.
23	CH Button	Allows the user to directly input known broadcasting CH or frequency numbers.
24	Stereo Button	Press to select between Stereo Normal and Stereo Wide modes, ***also has a colour coded teletext function*** and OSD† function.
25	Dual Language	This button allows the user to select a dual language function (subject to availability)and switches from Mono to Stereo reception, ***also has a colour coded teletext function*** and OSD† function
26	Mute Button	This feature allows the user to mute the sound temporarily.
27	***Text Button****	***When pressed this button enables the Teletext service.***

† *OSD (On Screen Display).*

IMPORTANT SAFETY INFORMATION ON OPERATING YOUR TV
Do's and Don'ts

DO's

This Television has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO consult your dealer if you are in any doubt about installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

This TV is supplied with a fitted mains plug. This plug must not be cut off as it may contain a special radio interference filter, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate safety approved extension lead or consult your dealer.

Observe the manufacturers instructions when connecting extension leads to the TV. Check the fuse rating on the new plug, this should be fitted with a 5 Amp fuse which conforms to either ASTA or BSI (BS1362) approvals, these are easily identifiable by either the ⟨ASTA⟩ or ♡ symbols. If you are in any doubt about the installation of an extension lead, please consult a competent electrician.

DON'Ts

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

DON'T place water filled vessels on top of T.V. cabinets.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode (see Page 24). Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs or stands to the TV with any screws other than those provided - to ensure complete safety always use the manufacturers approved stand with the fixings provided.

DON'T allow electrical equipment to be exposed to rain or moisture.

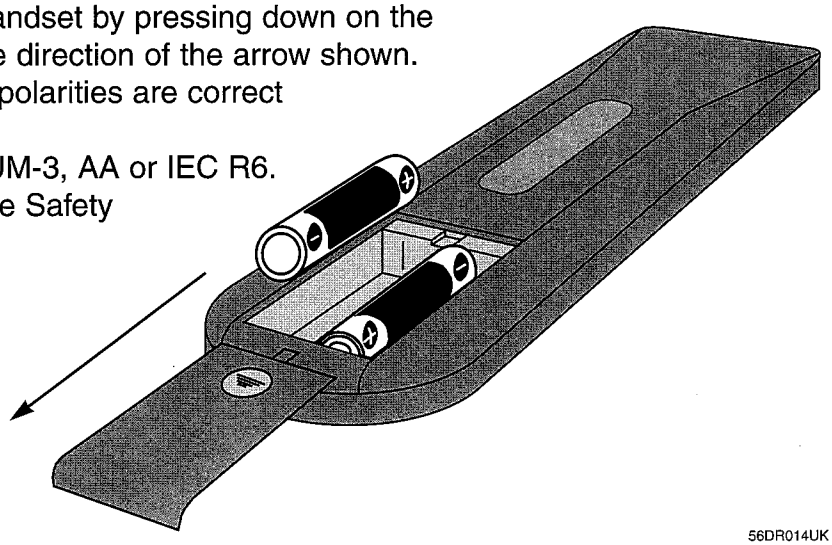
ABOVE ALL

- ***NEVER let anyone, especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electric shock.***

- ***NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry!.***

Battery Installation

1. Remove the batteries from their packaging and identify the + and - polarity.
2. Remove cover of Remote Control Handset by pressing down on the cover marked ⩧ whilst pulling in the direction of the arrow shown.
3. Insert the batteries making sure the polarities are correct i.e. + to +, - to -.
4. Replace batteries with equivalent SUM-3, AA or IEC R6.
5. Discard old batteries safely, follow the Safety Guidelines below.



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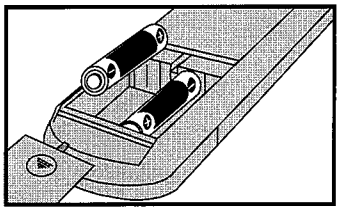
Battery Safety Guidelines

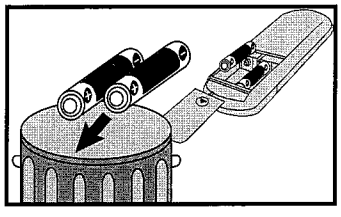
Used correctly, batteries are a safe and dependable source of portable power. However, problems can occur if they are misused or abused - resulting in leakage, or in extreme cases, fire or explosion. Here are some simple guidelines to safe battery use designed to eliminate any such problems.

ALWAYS



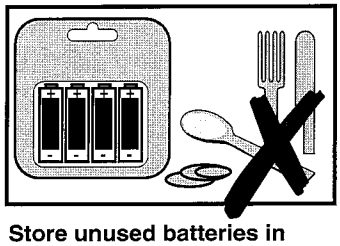
Take care to fit your batteries correctly, observing the plus + and minus - marks on the battery and appliance. Incorrect fitting can cause leakage, or in extreme cases, fire or explosion.

ALWAYS



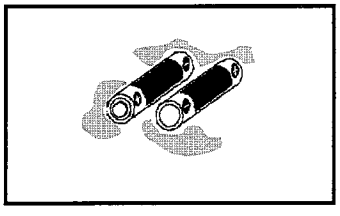
Replace the whole set of batteries at one time, taking care not to mix old and new batteries of different types, since this can result in leakage, or in extreme cases, fire or explosion.

ALWAYS



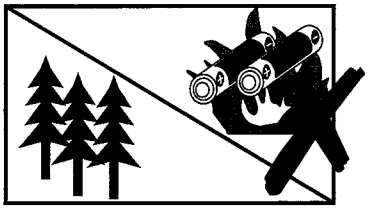
Store unused batteries in their packaging and away from metal objects which may cause a short circuit resulting in leakage, or in extreme cases, fire or explosion.

ALWAYS



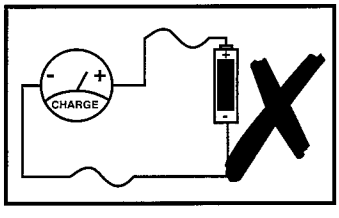
Remove dead batteries from equipment, and all batteries from equipment that is to be left for long periods of time without any use. Otherwise the batteries may leak and cause damage.

NEVER



Never dispose of batteries in fire as this can cause an explosion.
Respect the environment - always dispose of batteries in an environmentally friendly manner.

NEVER



Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak, cause fire or even explode. Rechargable NiCad batteries and chargers can be purchased from any good 'High Street' electrical retailer.

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Before installing your TV please read the following important notes:

If you intend placing this TV into a cabinet or a wall alcove, please ensure there is at least a 100mm (10cm) gap to the sides, rear and top of the Television. This is to allow for adequate ventilation during TV operation.

Don't allow soft furnishings such as curtains to be draped over the TV whilst in operation.

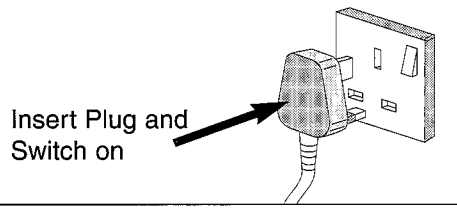
Never place the TV on to a carpet during normal operation - this could obstruct ventilation slots on the base of the TV.

Always place the TV on a flat surface , or if supplied, the stand accessory.

Failure to observe the above guidelines could result in serious overheating of your TV, or in extreme cases, even fire.

Step 1.
Connecting your TV to the mains socket.

(Please read the Safety Notes on page 5 with reference to unattended operation).



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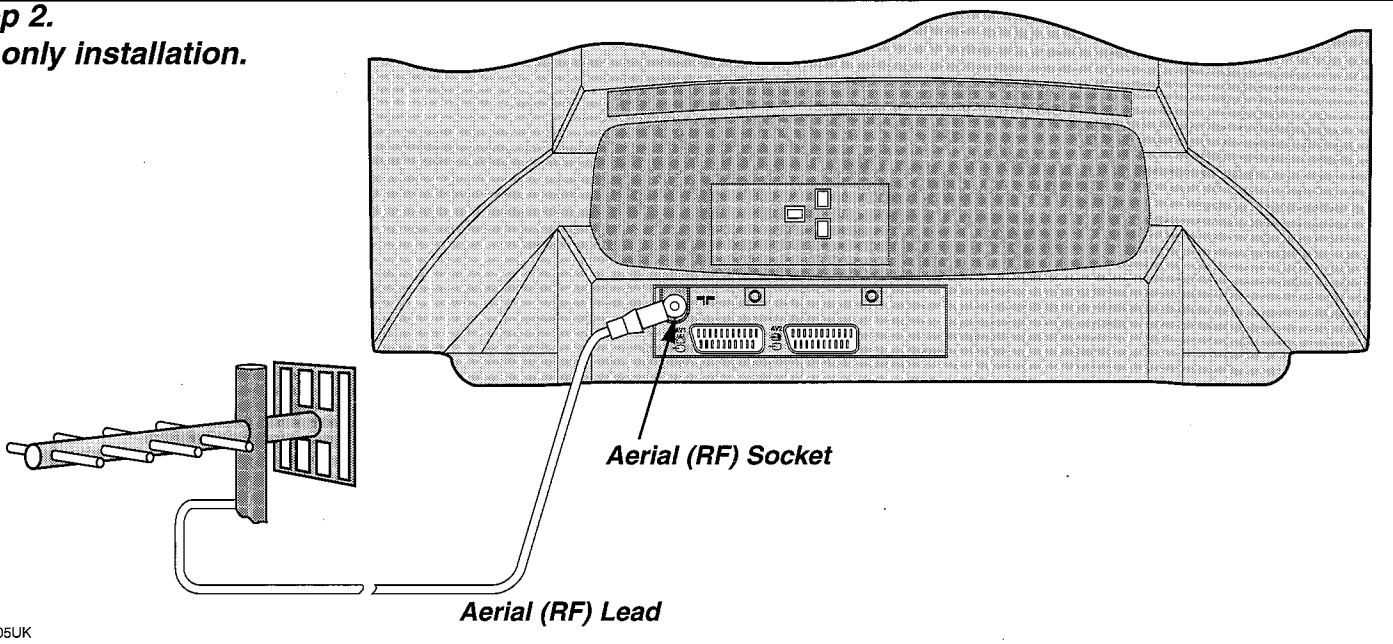
Step 2.
TV only installation.



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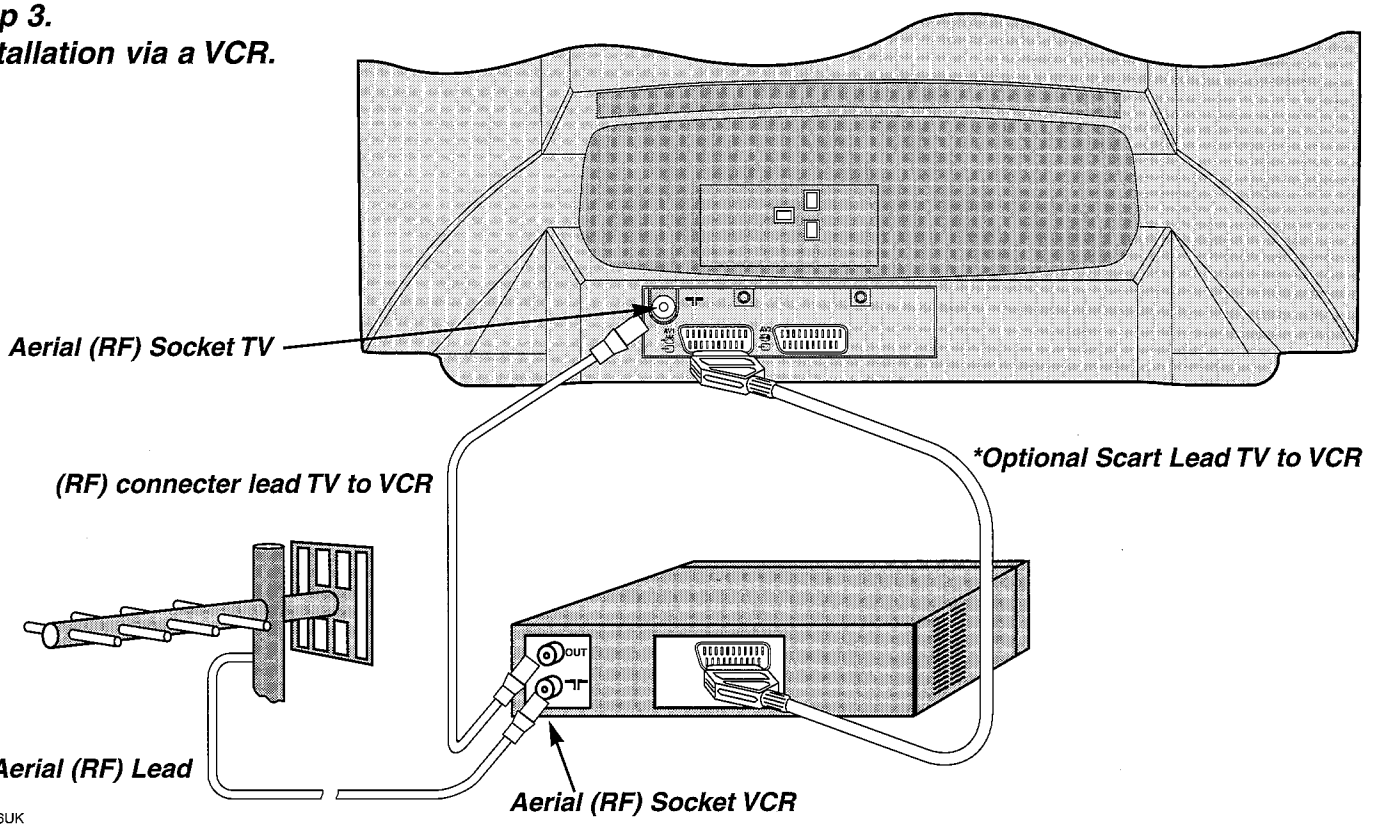
Step 3.
Installation via a VCR.



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*A scart lead should be fitted between your TV and VCR to enhance your picture and sound quality. Scart leads are essential if you have a stereo TV and VCR and wish to obtain stereo sound from your equipment. These leads can be purchased from your Hitachi dealer or any good 'High Street' electrical retailer.

FRONT CONTROL PANEL

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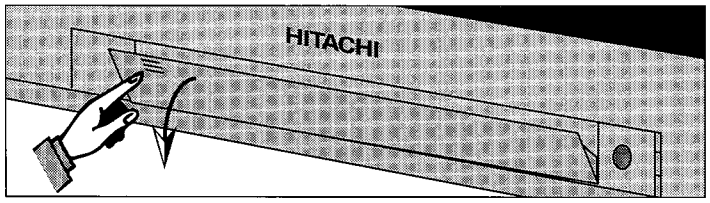
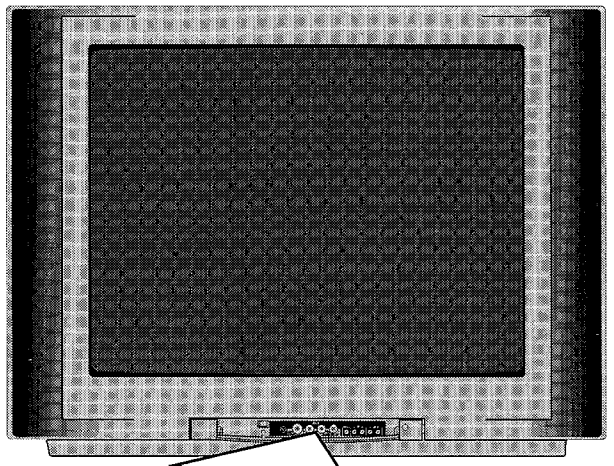
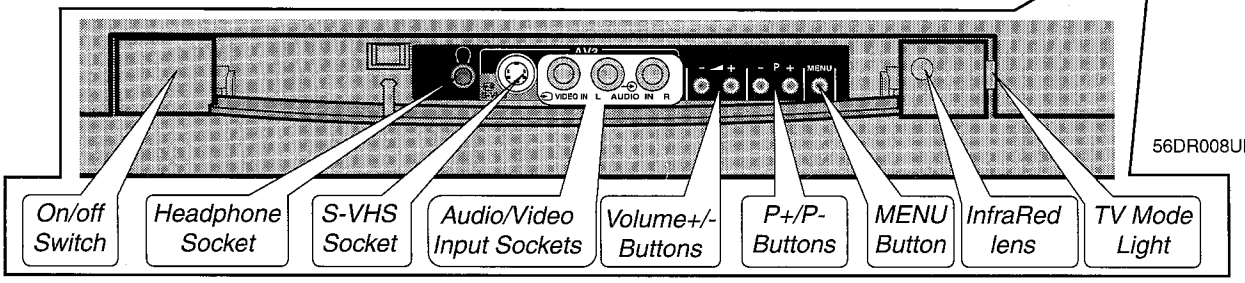


Access to the front control panel is gained by pushing the door in and releasing. The front control panel contains items such as the Headphone socket, Audio/Video sockets, MENU button, Programme + /- and Volume +/- buttons. Also located on the front are the ON/OFF button, Infra Red Lens and TV Mode Light.





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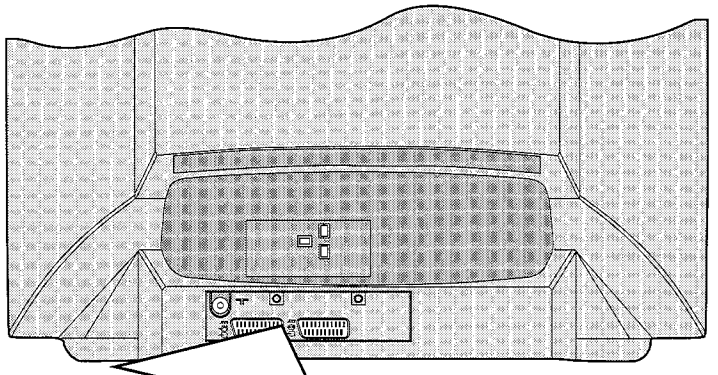
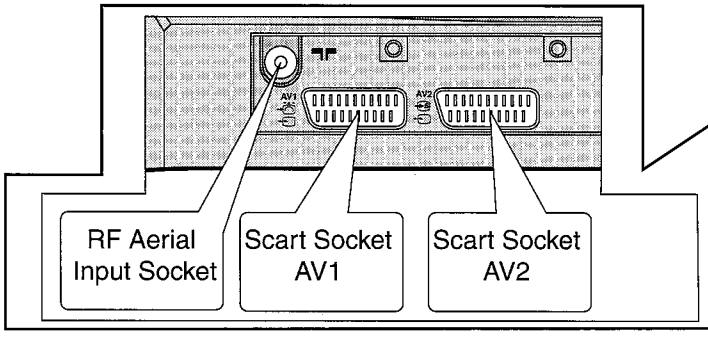
REAR CONNECTING SOCKETS

The rear of your TV contains an aerial RF input and two scart sockets, AV1 and AV2. The RF/ aerial socket is permanently connected to an RF source i.e. an aerial antenna (shown on Page 7). The scart sockets are used to connect external equipment such as VCR's, Satellite Receivers / Decoder etc. Connection of this equipment is explained in greater detail on Page 18 and 19 of this manual.





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SWITCHING ON

To switch your TV on, press the ON/OFF button shown above. If the TV fails to display anything on the screen, but the red TV mode light appears bright, then the TV is in Stand by mode. Press the Stand by button on your handset (key 2) to activate the TV. The red TV mode light will then dim and you should allow the TV a few seconds for a picture to appear.

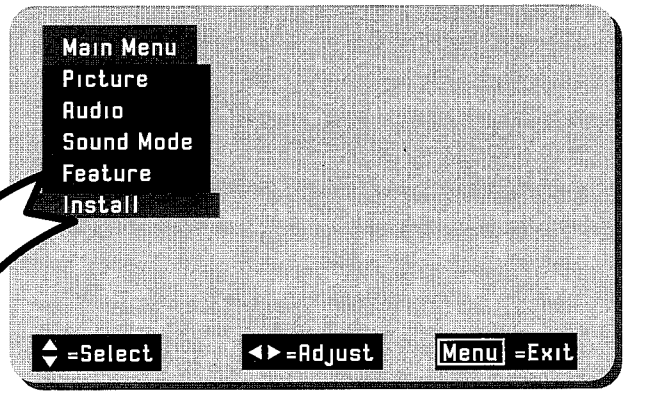
NOTE: Make sure the Handset foldout section (Page 3) is extended out for easy referencing.
To automatically tune this TV to your local broadcasting stations follow the step by step guide below. Once the TV has found all your local stations, then they are automatically assigned into the following order: **1. BBC1; 2. BBC2; 3. ITV; 4. CH4/S4C; 5. CH5** ***(subject to availability);*** **6. Satellite.**
Alternatively, if you are familiar with local broadcasting frequency or CH numbers, then these can be entered manually. Please refer to the Manual Tuning Procedure section of this manual.

IMPORTANT NOTE: If you have a VCR or a Satellite receiver connected to this TV please ensure that they are switched on before Autotune commences. In the case of a VCR, insert a pre-recorded tape and begin playback of your equipment. With a Satellite receiver, select Sky News. These measures ensure your equipment is tuned in during the AUTOTUNE procedure. (Satellite equipment installation is explained on Page 18 and 19).

Press and HOLD the MENU key (20) on your handset until the menu right (top) appears.

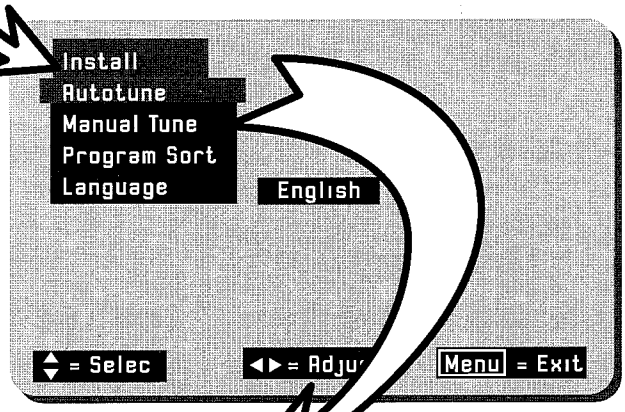
To ensure the INSTALL option is displayed the MENU key (20) must be held for approximately 5 seconds.

Highlight INSTALL using cursor keys 17 or 21 (if INSTALL is not shown follow step above once more).



Press cursor key 18 or 19 to select INSTALL. The INSTALL menu (centre right) is shown.

If language setting is incorrect, use cursor keys 17 or 21 to highlight LANGUAGE, and select using cursor keys 18 and 19.



Use cursor key 17 or 21 to highlight AUTOTUNE.

Use either cursor key 18 or 19 to begin AUTOTUNE.

Completed Autotune example.

Automatic Tuning cont.

Program Sort

The PROGRAM SORT menu allows the user to swap programme numbers from one location to another. If necessary follow the steps below.

Press and HOLD the MENU key (20) until Main Menu with INSTALL is shown (top right).

Use cursor key 17 or 21 to select INSTALL and press cursor key 18 or 19 to enter

Use cursor key 17 or 21 to select PROGRAM SORT and press cursor key 18 or 19 to enter

The PROGRAM SORT menu is displayed.

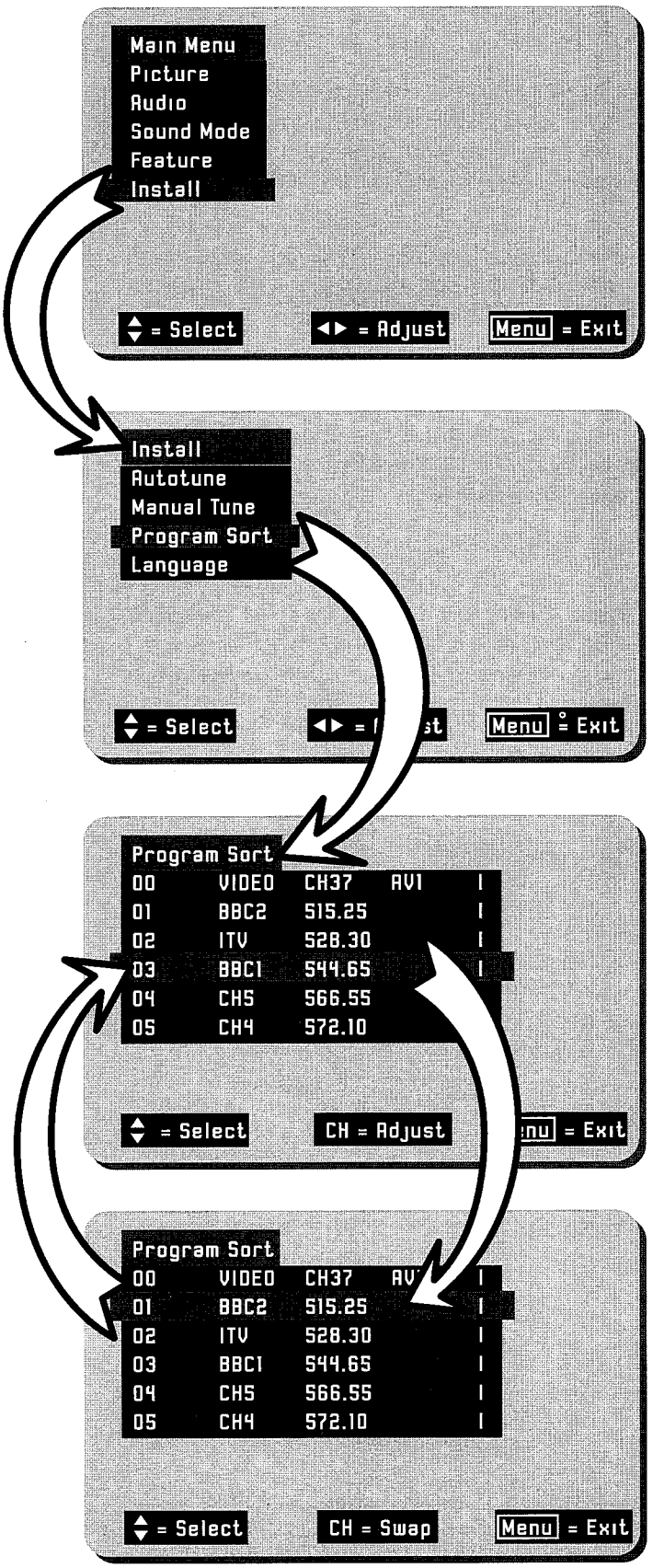
Use cursor key 17 or 21 to highlight Program to change (example shows Program 3 BBC1)

Press CH key (23) to select [select bar turns RED in colour]

Use cursor key 17 or 21 to highlight Program to be replaced (example shows Program 1 BBC2)

Once highlighted press CH key once more to confirm selection [select bar returns to BLUE]

Repeat above to swap other programs, or repeatedly press MENU key 20 to return to TV operation.



In this example BBC2 on Program 1 has been selected so that it may be swapped with Program 3 (BBC1).

Manual Tuning Procedure

If desired, you may manually tune this TV. There are several methods of Manual Tuning, these include Search Tuning / Fine Tuning and Frequency or CH manual input (this requires you to know your local broadcasting frequency or CH number). This section will also deal with items such as assigning AV sockets to program numbers and Program Naming.

Search Tuning / Fine Tuning

This section deals with locating broadcasting stations using the Search Tuning and combined Fine Tuning facility. Fine Tuning may be required after Search or Automatic Tuning is complete.

Press and HOLD the MENU key (20) on your handset. The Main Menu (top right) is displayed.

Select INSTALL and press cursor keys 18 and 19 to enter. The INSTALL menu is displayed.

Select Manual Tune and press cursor keys 18 or 19 to enter Manual Tune menu.

The Manual Tune menu is displayed (bottom right).

Use cursor keys 17/18/19 and 21 to highlight frequency bar of programme Nº to Search Tune.

Press CH key (23) to select [bar turns RED] and press cursor keys 18/19 to begin SEARCH TUNE.

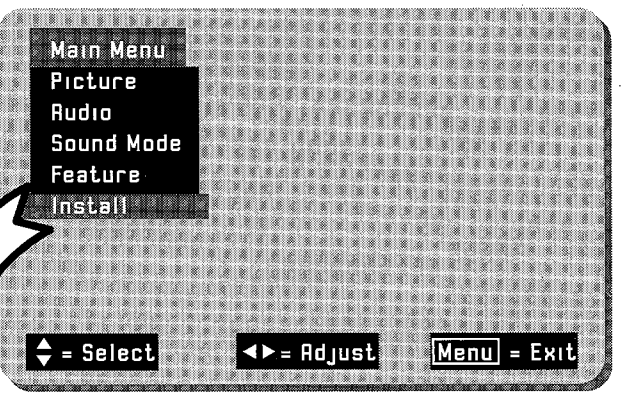
When a broadcast is found either repeatedly press the MENU key (20) to store and exit to TV

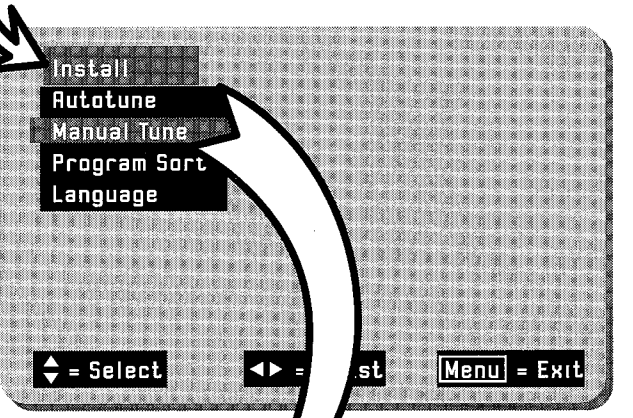
OR

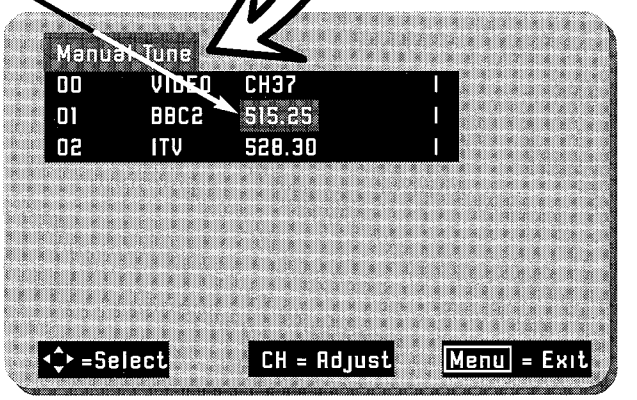
To continue Search Tune simply press cursor keys 18/19, the TV will start searching once more.

To FINE TUNE press cursor keys 17 or 21 until the picture becomes clear.

When complete repeatedly press the MENU key (20) to exit, or repeat above to Search/Fine Tune other program numbers if necessary.







Manual Tuning cont.

Entering Known Frequencies

Broadcasting stations transmit the signal to your TV on a particular defined frequency i.e. 525.25MHz. These frequencies can be entered manually if known, and you can obtain this information by calling your local operator. In addition to frequency transmission a corresponding CHANNEL Nº is also used i.e. CH34, and this too can be directly input to your TV if known. (The S-- number has no function on this TV).

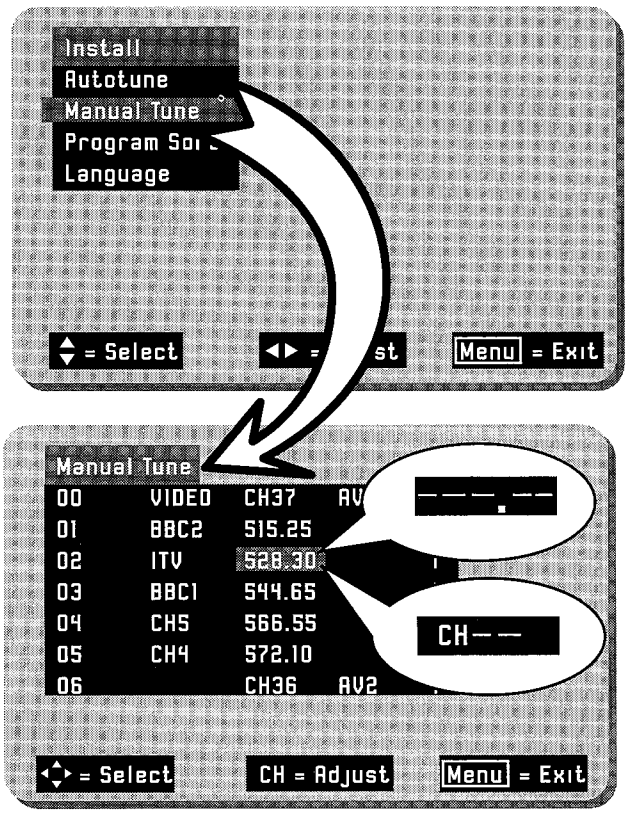
Press and HOLD MENU key (20) and select INSTALL. Select MANUAL TUNE from INSTALL menu.

Use cursor keys 17,18, 19 or 21 to highlight the frequency of the program number you wish to enter.

Press the CH key (23) on your handset once, the column changes RED to indicate selection.

Repeatedly press CH key to select CH- - or ---.--, and enter the known number using 0-9 keys.

Once the number has been entered, press the MENU key once more and the display turns BLUE. This is now stored. Press MENU to exit.



Assigning AV Prog. Nºs

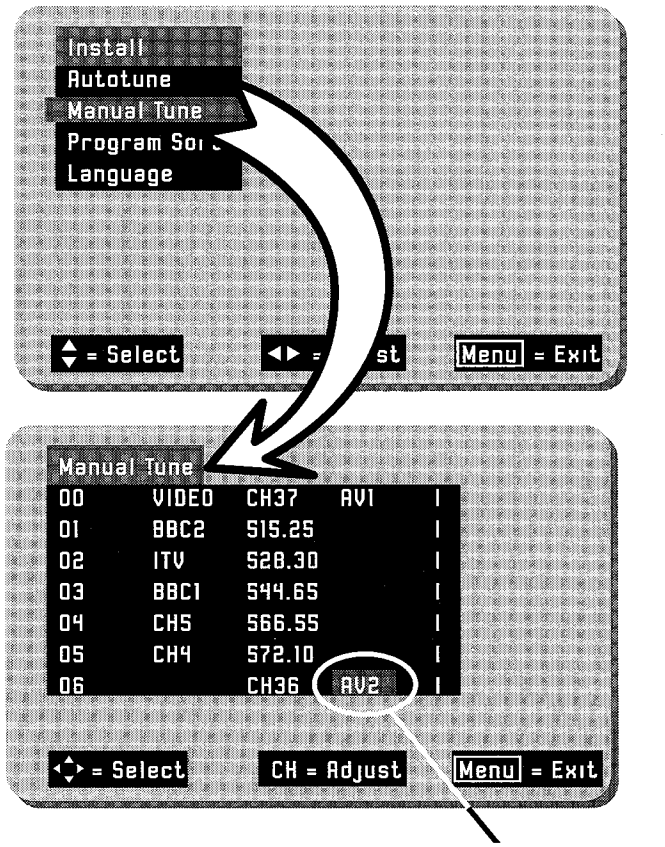
When AV sockets are commonly used, for example, if you view camcorder recorded events frequently, then we suggest assigning a dedicated program number on your TV. This can be any program number that has not already been assigned. Follow the step by step guide below.

Press and HOLD MENU key (20) and select INSTALL. Select MANUAL TUNE from INSTALL menu.

Use cursor keys 17,18, 19 or 21 to highlight the AV column of the program number you wish to assign.

Once highlighted press the CH key (23) and select between each AV mode using cursor keys 18 or 19.

Repeat above to enter other AV sockets or repeatedly press MENU key (20) to store and exit to TV mode.



AV2 assigned to Program 6

Program Naming After Tuning in, most broadcasting station names appear on screen i.e. BBC1, BBC2, ITV etc.. However, you may change or add program names whenever you desire. To add or change program names follow the simple step by step guide below.

Press and HOLD MENU key (20) and select INSTALL. Select MANUAL TUNE from INSTALL menu.

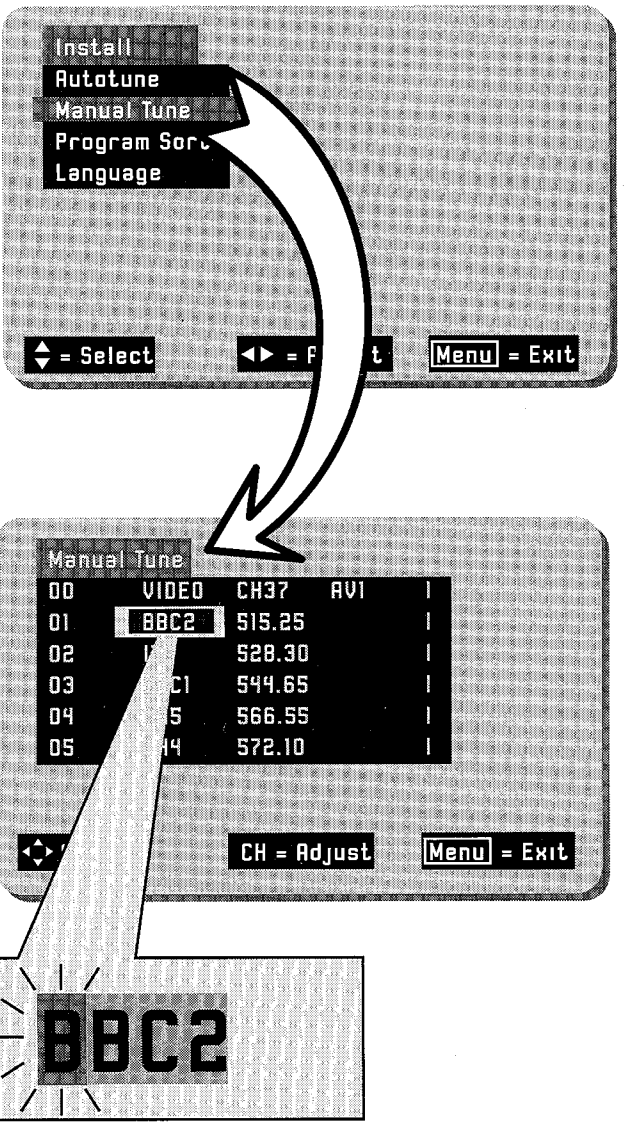
Use cursor keys 17,18, 19 or 21 to highlight the Program Name you wish to assign or change.

Press the CH key (23) [the first digit will blink], now use cursor keys 17/21 to scroll through all the characters.

Once the first character has been entered select next digit using cursor key 19 and repeat above step.

You may use up to 5 characters for any one Programme Name. Press MENU (20) key to store.

Repeat above steps to assign other Program Names or repeatedly press MENU key (20) to exit to TV mode.



When selected the character will blink on and off.

Picture and Sound Controls

Picture settings are controlled via the TV's on board Menu system. These levels have already been preset at the factory and should require no adjustment. However, your personal viewing preferences may vary from these settings and alteration should be performed as follows:-

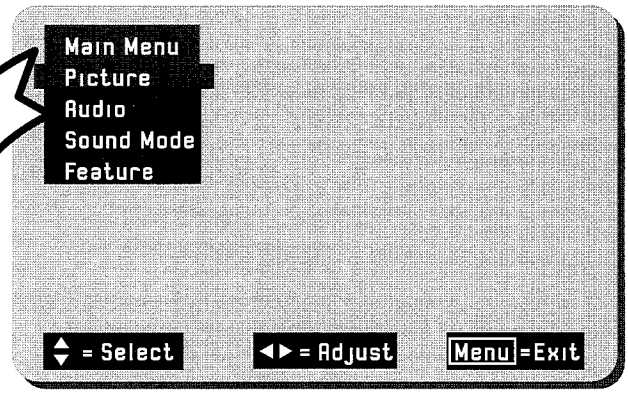
Press the MENU key 20 on your handset. The Main Menu is displayed.

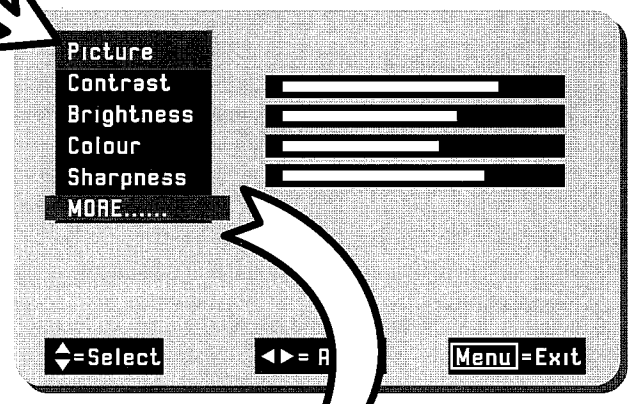
Use RED colour coded key (9) to select PICTURE
(or use cursor keys 17/21 to select and key 18 or 19 to enter)

The PICTURE menu (middle right) is displayed.

Highlight the control to be adjusted using cursor keys17 or 21 .

Adjust other controls if necessary, or press repeatedly press MENU button (key 20) to exit

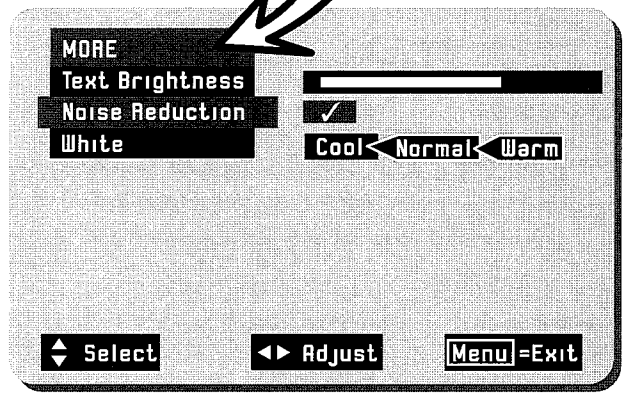




Picture Menu

To obtain the MORE sub menu highlight MORE and press cursor keys 18 or 19 to enter.

Select and adjust controls as necessary, once complete press MENU button (key 20) to exit



Picture Sub Menu

Function Controls

CONTRAST:

COLOUR:

BRIGHTNESS:

SHARPNESS:

***HUE:**

*(Hue control appears on-screen only if an NTSC signal is received via the AV sockets).

Additional Functions

TEXT BRIGHTNESS : This function allows the user to adjust the text brightness of On Screen Display windows and Teletext pages.

NOISE REDUCTION :Noise Reduction improves picture quality when a signal becomes weak or when viewing poorly recorded VCR tapes. When selected a ✓ is displayed.

WHITE: This feature controls the colour temperature displayed on the picture tube.

The Sound Menu is accessed via the TV's on-board MENU system, and allows the user to control such features as Volume, Bass, Treble, Balance and Bass Boost. These settings have already been preset at the factory, however, your personal listening tastes may differ from those set. Please follow the guide below for adjustment and setting.

Press the MENU key 20 on your handset. The Main Menu is displayed.

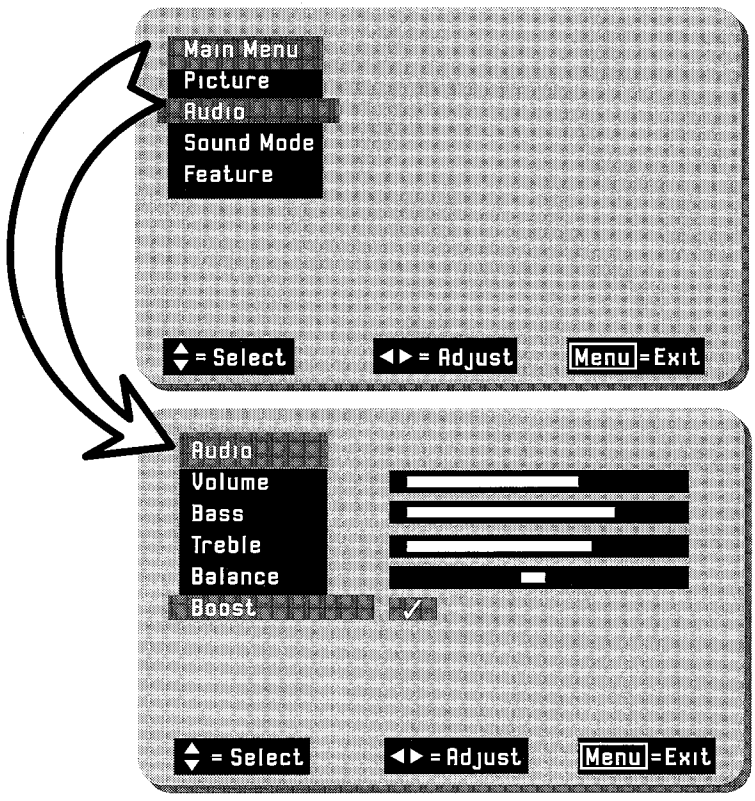
Use GREEN colour coded key (9) to select AUDIO (or use keys 17/21 to select and key 18 or 19 to enter)

The AUDIO menu is displayed (bottom right).

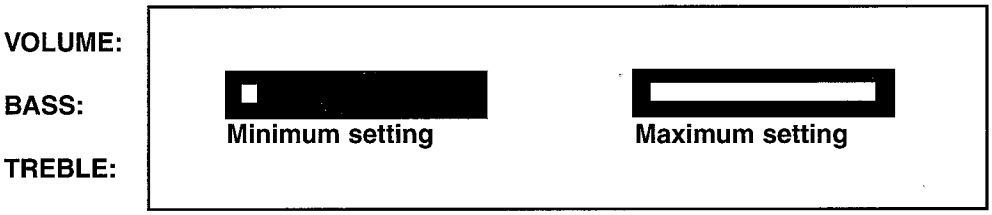
Highlight the control to be adjusted using keys 17 or 21 *(example shows Bass Boost).*

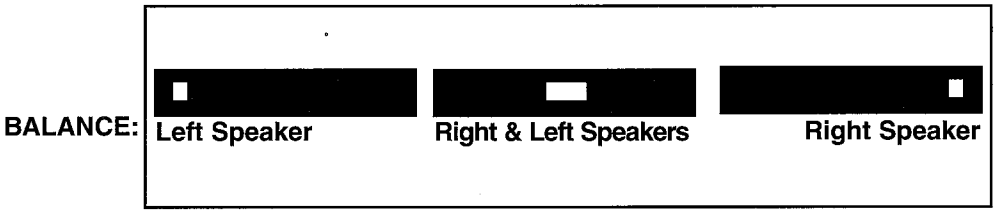
Adjust the particular control using keys 18 or 19

Adjust other controls if necessary, or repeatedly press MENU (20) to exit.



Function Controls





BASS BOOST: When selected a ✓ is displayed.

Feature Menu

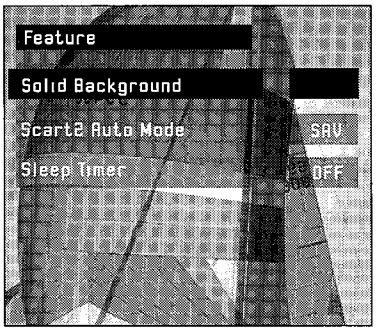
Solid Background

The Solid Background feature controls the appearance of the OSD (On Screen Display) window environment, with either a solid or transparent appearance to the OSD. There are two modes to select from and these are simply ON and OFF. Follow the guide below.

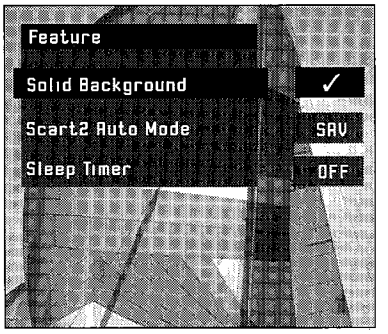
Press the MENU key (20) on your handset. The Main Menu is displayed.

Use BLUE colour coded key (9) to select FEATURE
(or use cursor keys 17/21 to select and cursor key 18 or 19 to enter)

Select Solid Background and adjust the controls ON or OFF with cursor keys 18 and 19.



With Solid Background deselected the OSD window becomes transparent, allowing you to view the TV picture behind the OSD.



With Solid Background selected the OSD window becomes solid.

Scart2 Auto Mode

This feature is used to set the condition of Scart 2 Audio/Video input socket. If, for example, you regularly connect external equipment such as S-VHS (Super VHS) Video recorders or camcorders to AV2, then the TV can be set to SAV mode to accommodate such equipment. Standard AV mode can also be set if desired.

Press the MENU key (20) on your handset. The Main Menu is displayed.

Use BLUE colour coded key (9) to select FEATURE
(or use cursor keys 17/21 to select and cursor key 18 or 19 to enter)

Select Scart2 Auto Mode and adjust the controls between AV and SAV with cursor keys 18 and 19.

Sleep Timer Function

The Feature Menu also incorporates a Sleep Timer Facility. This allows the user to input a set amount of time before the TV automatically shuts down in to Stand by mode. The amount of time is input in 5 minute intervals, to a maximum of 120 minutes (2 hours).

Press the MENU key (20) on your handset. The Main Menu is displayed.

Use BLUE colour coded key (9) to select FEATURE
(or use cursor keys 17/21 to select and cursor key 18 or 19 to enter)

Select Sleep Timer and enter the time value with cursor keys 18 and 19.

An example of the Sleep Timer function with 25 minutes entered is shown.

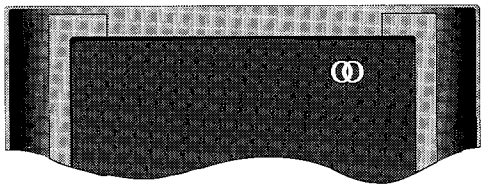
NOTE: *In addition to the Sleep Timer function, if the TV does not receive a signal for a period of 10 minutes the TV will automatically power down into Stand by mode.*

In addition to the standard features found, your TV also has NICAM sound capabilities. NICAM transmitted signals provide stereo sound whilst viewing the TV in NICAM mode, thus giving the user even greater listening pleasure. The TV also provides 16:9 (Wide Screen Format) viewing capabilities, together with automatic wide screen detection software built in.

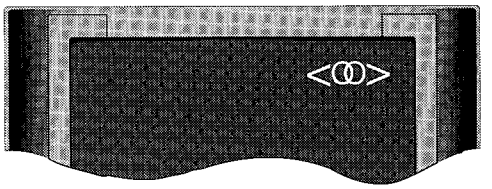
Nicam Features

The Nicam facility features three modes which provide the viewer with various sound effects. These features are activated by pressing the ⊜ key (Nº24) on the handset. When repeatedly pressed the TV will cycle through each mode and will display a particular on-screen symbol. The various modes and on-screen identification is explained below.

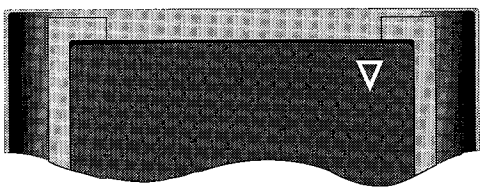
Stereo This effect produces NICAM digital stereo sound from the TV. Use this mode for the majority of TV viewing. When selected the STEREO symbol is displayed in the top right hand corner of the TV screen as shown.



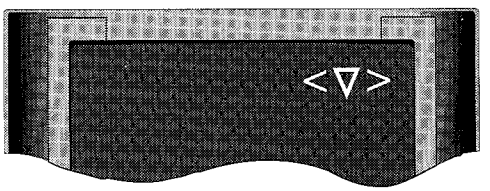
Wide Stereo This effect enhances NICAM digital stereo by forcing a wide area of sound from the TV. Use this mode when viewing action movies or sports events to obtain spatialising acoustic performance. When selected the symbol shown below appears at the top right hand corner of the screen.



Monaural In monaural mode the TV transmits a single sound source. The TV will automatically select this sound when a mono signal is found. Some stereo signals can become poor in adverse weather conditions, and mono should be selected to avoid poor sound.
Use the I-II▽ key (Nº25) to switch to mono (the symbol below appears when switched).

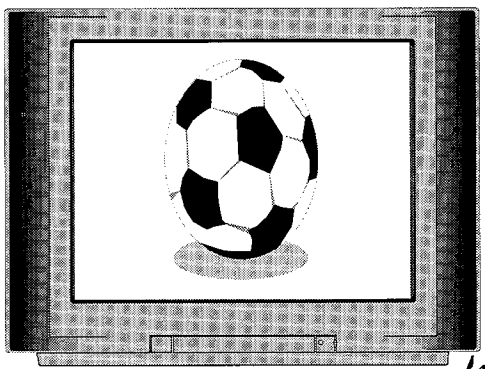


Pseudo Stereo Pseudo stereo creates an ambient sound from mono signals imitating that of stereo sound. Use the ⊜ key (Nº24) to select Pseudo Stereo. When selected the symbol shown will appear in the top right hand corner of the screen.



16 x 9 Features

Various broadcasting stations now transmit movies and programs in true wide screen format, especially some Satellite broadcasts. Built in to your TV is software that detects these signals and automatically switches your TV to the correct format. However, some broadcasters do not transmit the automatic sensing signal, and thus the TV will not recognise what format is transmitting.

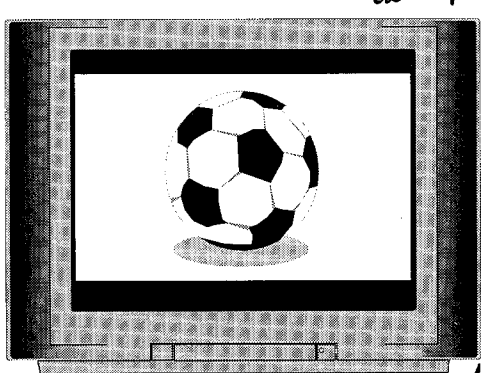


example 1

The above problem may be overcome simply by pressing the 16:9 (key10) button on your handset.

First identify the type of signal being transmitted. If it is a 16 x 9 wide screen broadcast viewed on a 4 x 3 normal format, then objects or characters appear tall and narrow (see example 1).

By pressing the 16 x 9 (key 10) button on your handset the screen is compressed to a 16 x 9 ratio. This is the correct ratio to view true wide screen broadcasts (see example 2).



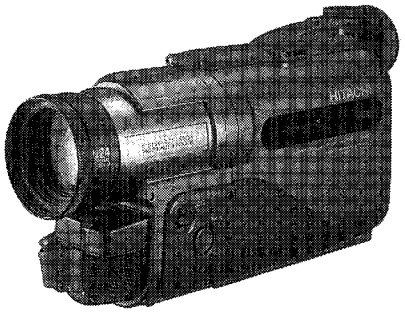
example 2

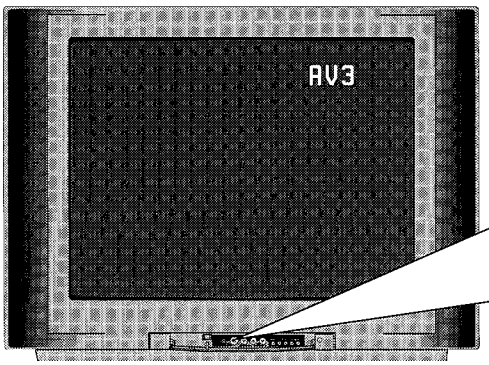
If the 16:9 key is pressed once more the AUTO function is set. The TV will automatically detect the broadcast and switch to 4:3 or 16:9 ratio. We recommend AUTO is set for the majority of TV viewing.

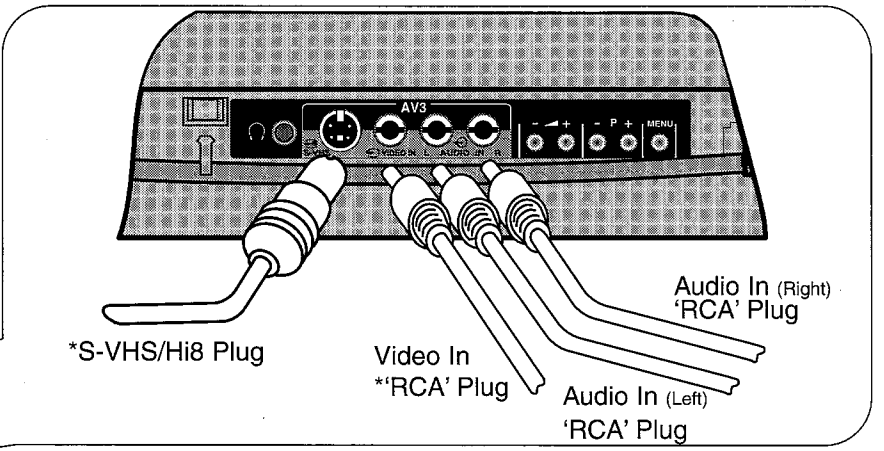
External Equipment Connection

Your TV has various input sockets for external equipment such as Video Cassette Recorders, Satellite Receiver/Decoder, Camcorders, Computer Equipment etc.. Equipment that is connected temporarily i.e. Camcorders can be connected via the front control panel input sockets. However, equipment such as VCR's and Satellite IRD's, that are more or less permanently connected to your TV, are connected via the AV1 or AV2 scart sockets on the rear of the TV.

CAMCORDER CONNECTION: Connecting a camcorder to your TV is simple. Firstly, identify the type of camcorder and it's connecting plugs. If it is a standard 8mm type camera then it is likely to have 'RCA' type sockets. If, however, you have S-VHS or Hi8 type camera then this may have a S-VHS/Hi8 plug and will have to be placed in the corresponding S-VHS/Hi8 socket on the TV. Open the front control panel door on the TV, and connect your equipment as shown in the illustration below. Switch your TV on, and repeatedly press the TV/AV button (№9) on your handset until AV3 is displayed on-screen. Now begin playback operation of your equipment.







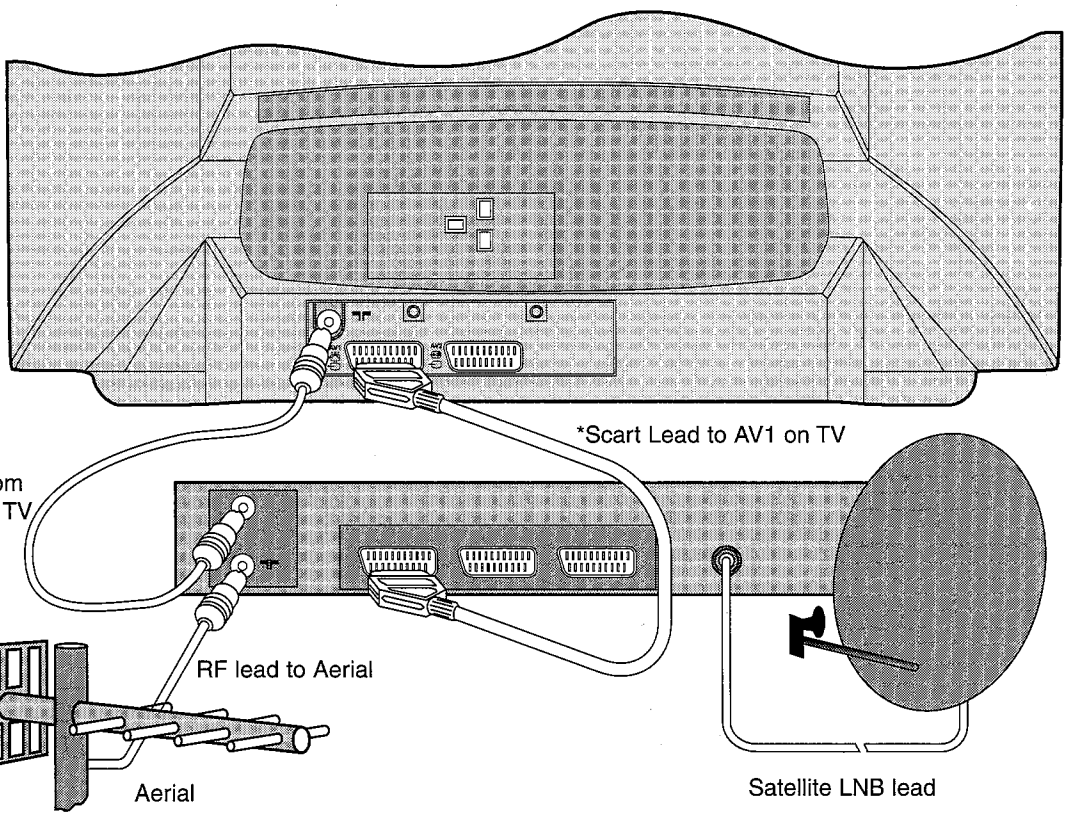
** If your camcorder has both S-VHS/Hi8 and 'RCA' type sockets, then connect the S-VHS/Hi8 socket only.*

COMPUTER EQUIPMENT: If computer equipment is to be connected to this TV, use AV1 as the RGB input socket located on the rear of the TV.

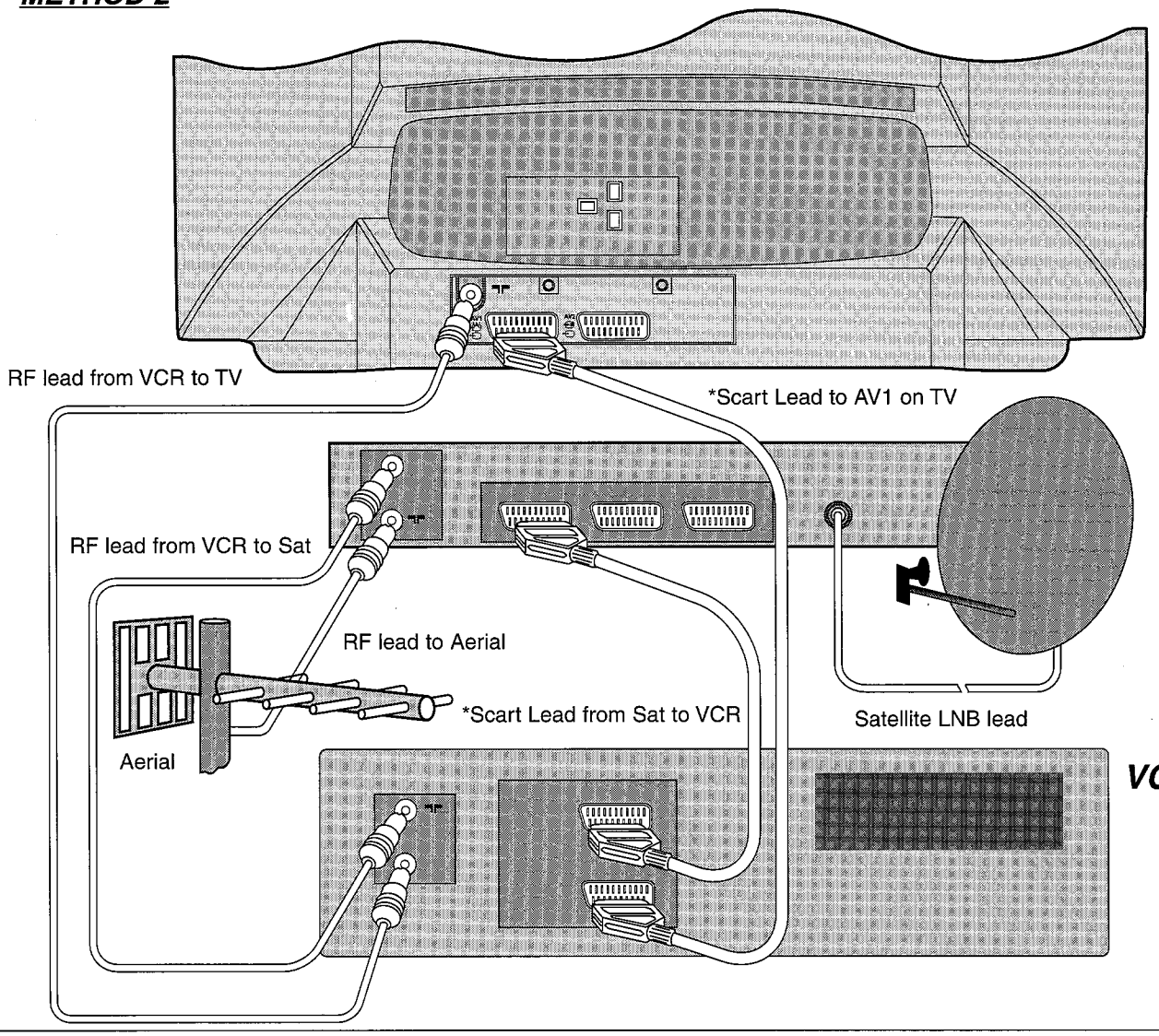
PLEASE NOTE: Prolonged use of computer equipment or games on this TV may cause permanent damage to your picture tube. To avoid such damage, reduce the brightness and contrast to an acceptable minimum level and limit the duration of equipment operation.

SATELLITE CONNECTION: There are two basic methods of connecting a satellite system to your TV. Method 1 explains connection of satellite equipment directly to the TV, where as Method 2 refers to connection via a VCR.

METHOD 1



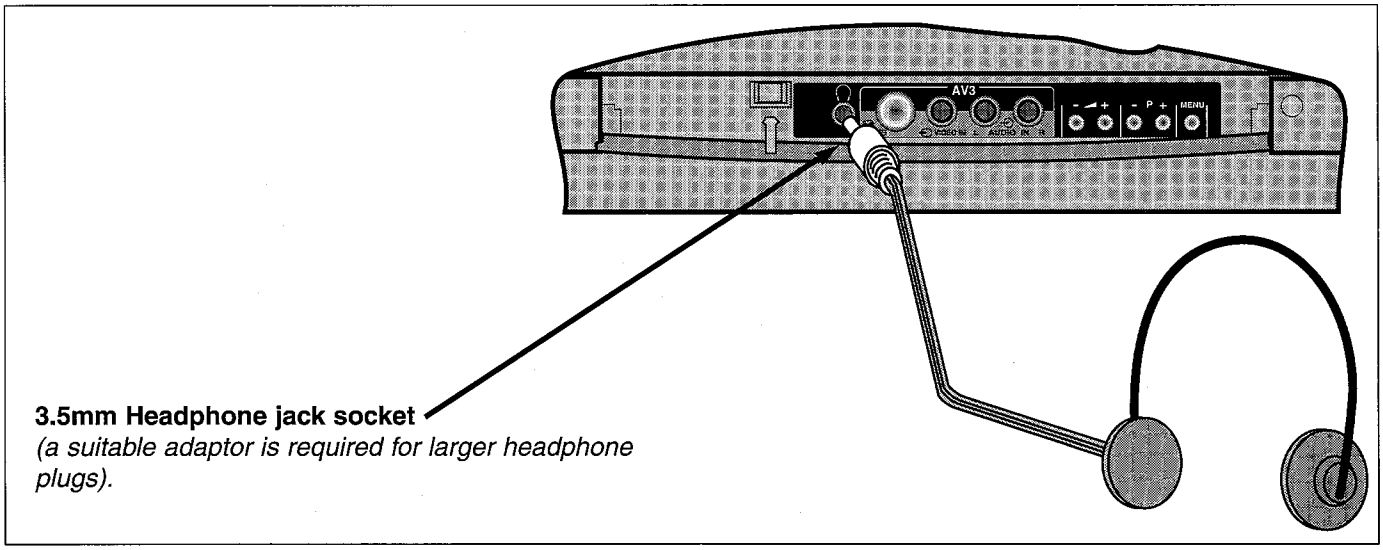
METHOD 2


RF lead from VCR to TV
*Scart Lead to AV1 on TV
RF lead from VCR to Sat
RF lead to Aerial
*Scart Lead from Sat to VCR
Satellite LNB lead
Aerial
VCR

NOTE:S-VHS video equipment should be connected to the AV2 Scart socket located on the rear of the TV. A dedicated program number may then be assigned to AV2, allowing you easier access to view external equipment broadcasts. How to assign AV sockets to dedicated program numbers is explained on page 12. Alternatively, repeatedly press the TV/AV button (Nº9) on your handset until AV2 is displayed on-screen. Now begin playback operation of your equipment.

HEADPHONE CONNECTION:

To use headphones with this TV, simply open the front control cover door and insert the headphone jack plug (3.5mm) into the corresponding socket marked ( ). The TV sound will then be switched to the headphones.



3.5mm Headphone jack socket
(a suitable adaptor is required for larger headphone plugs).

Teletext Operation

Teletext operation is entered by pressing the TEXT button (key 27) on your handset.
A page similar to the one shown on the right will appear. The main page contains numbered topics that are accessed by entering the corresponding three digit code on your handset (keys 3).
In addition to the above system, at the bottom of the page there are four colour coded popular topics i.e. TV Guides, Weather, Sport etc., however, these may vary between each broadcasting station.
To access these topics simply press the corresponding colour coded keys on your handset (keys 9, 22, 24 and 25).
By pressing the P+ or P- keys (17 and 21) you may step up or down a page respectively.
If a mistake occurs while entering a number then simply re-enter the desired number.

The 4 Fastext Topics are shown on the bottom of the screen

FAVOURITE PAGE OPTIONS

The TV is capable of storing up to 4 favourite pages. These pages could be your favourite sport or TV page etc., and are accessed by pressing one of the colour coded keys (keys 9, 22, 24 and 25) on your handset.
To enter a favourite page first access the TEXT mode by pressing the TEXT key (3) on the handset. Now enter the favourite page mode by pressing the MENU button (key 20) on your handset (the MENU button allows the user to toggle between FAS-TEXT and FAVOURITE PAGE modes).
Enter the colour coded key you wish to use as the first favourite page (keys 9, 22, 24 and 25).
Now enter the page number you wish to assign to the desired colour coded key using the 0-9 buttons (key 3) on your handset.
Once you have completed this step you must now store your selection in the TV's memory. Simply press and hold the selected colour coded key until the entire bottom fastext bar turns white. This is now stored.
If desired, another three favourite pages may be entered by following the above method, utilising the existing colour coded keys.
To view a Favourite Page simply press the MENU key whilst in FASTEXT and press the desired stored page using the Colour Coded keys on the handset.

Other text functions are explained on Page 4 'Handset Functions'.

VCR Operation

Your handset incorporates controls for operation of HITACHI Video Cassette Recorders. These controls are STANDBY, PLAY, STOP, FAST FORWARD and REVERSE and are located on the bottom of the handset.

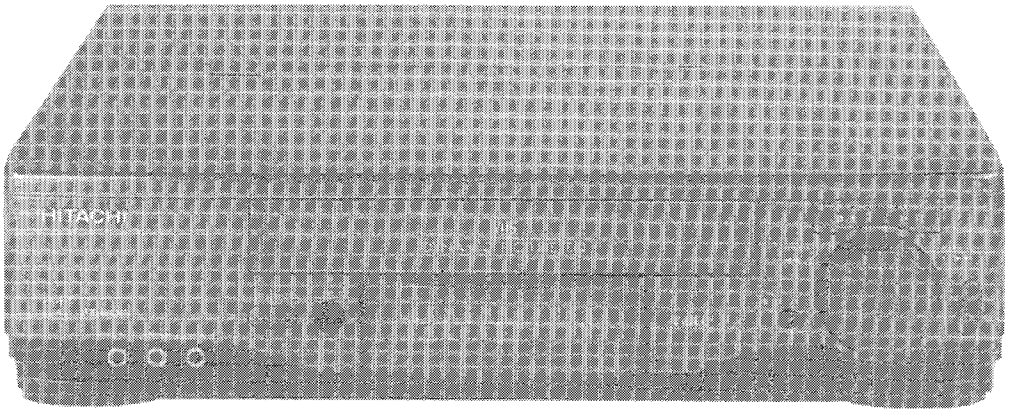
To switch your VCR on or off simply press the VCR StandBy button (key 12)

To halt a cassette tape press the STOP button (key 13).

To rewind a cassette tape press REW button (key 14).

To begin playback of a cassette tape press the PLAY button (key 15).

To fast advance a cassette tape press F/FWD button (key 16).



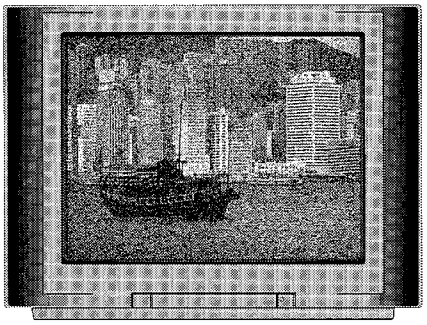
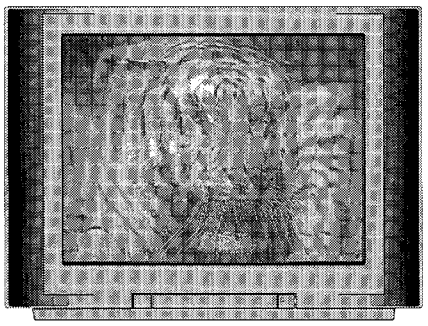
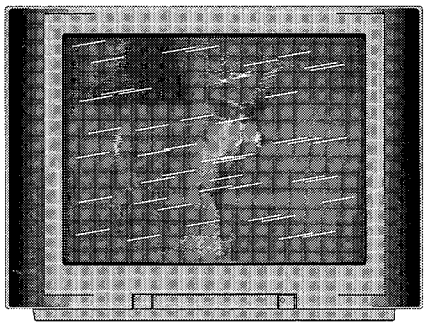
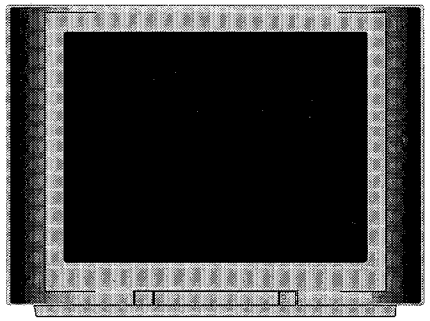
Trouble Shooting Guide

The guide below is intended to help the user to identify common problems which may be encountered during the setup of this TV. If a problem still exists after referring to this guide, please consult your dealer immediately. Under no circumstances remove the rear cover of this TV. There are no user serviceable parts inside and you will be exposed to high voltages, which could cause a severe or fatal electric shock.

Q. My TV fails to switch on. ***A. Check that plug is connected to socket and switched on. Check fuse and make sure TV is not in Stand-by mode (see below).***

Q. My remote control handset does not work. ***A. Make sure there are no obstructions between the handset and the TV infra red lenses. The batteries may be exhausted - replace the whole set.***

Q. The handset won't control my VCR. ***A. The handset is only programmed to control Hitachi VCR's.***

Problem Identification	Possible Reason	Remedy
 **Snowy Picture - Poor Sound**	*Aerial has moved out of position* *Corroded or poor aerial connections.* *Connection of RF lead to TV poor.* *Adverse weather conditions.* *Transmitter problems.*	*Re-align aerial.* *Make new connections or renew lead.* *Make new connection and/or change RF plug.* *None.* *Check with local Operator.*
 **Multiple Images - Sound OK**	*Aerial has moved out of position.* *TV not tuned correctly.* *Adverse weather conditions.* *Transmitter problems.*	*Re-align aerial.* *Re-tune or Fine tune TV.* *None.* *Check with local Operator.*
 **Intermittent Interference**	*Magnetic interference from electrical or mechanical motors, fluorescent lights, portable radios etc..*	*Check devices for shielding and renew if necessary or move further from TV.*
 **No Picture or Sound**	*TV may be in AV mode.* *TV in Stand-by.* *Picture/Sound controls set to minimum.*	*Press TV (key 1) button or 0-9 buttons to return to TV mode.* *Press 0-9 buttons.* *Check Picture/Sound controls (see Page 15/16).*

Your Guarantee *of Excellence*

Thank you for purchasing this Hitachi television.

In the unlikely event that this product should develop a fault, we undertake to replace or repair any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that:

i) The product has been installed and used only in accordance with the instructions supplied with the product.

ii) The product has not been repaired, maintained, or modified by any person other than an Hitachi authorised engineer.

iii) The product serial number has not been removed or altered.

This guarantee does not apply to product acquired secondhand or for commercial or communal use.

This guarantee does not cover the replacement of exhausted batteries, the adjustment of user controls, or aerial alignment.

Any parts replaced under this guarantee shall become the property of Hitachi Home Electronics (Europe) Ltd.

Please note that evidence of the date of purchase will be required before any service under this guarantee is carried out.

GUARANTEE

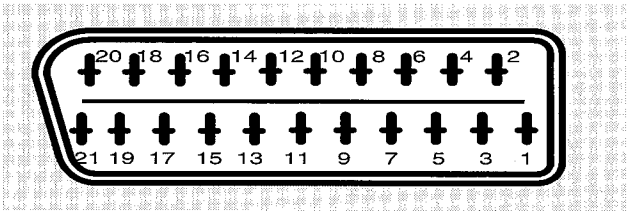
THIS GUARANTEE DOES NOT AFFECT YOUR STATUTORY RIGHTS.

IN ALL CASES OF DIFFICULTY PLEASE CONSULT YOUR HITACHI DEALER.

TV Standard	625 line single standard
Channel Coverage	UHF channels
Aerial Impedance	75 Ω unbalanced
Picture Tubes	51, 59 and 66 cm type
Mains Voltage	220 - 240V AC 50 Hz
Internal Speakers	6 x 12 cm type x 2
Power Consumption *(All models <6W in standby)*	51cm models 90W approx. 59cm models 97W approx. 66cm models 98W approx.
Weight	51cm models 20.4kg approx 59cm models 25.5Kg approx 66cm models 31.7Kg approx
Dimensions (W x H x D)	51cm models 614 x 502 x 467 59cm models 700 x 468 x 521 66cm models 768 x 507 x 579
Remote Control Batteries	2 x HITACHI SUM-3 /equivalent AA

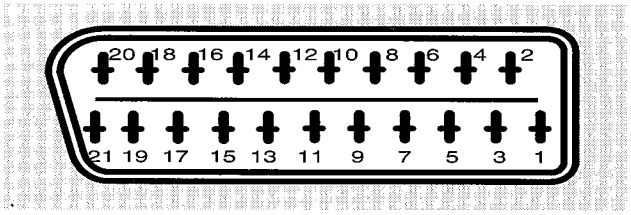
Specifications are subject to change without notice. Weight and dimensions shown are approximate.

SCART SOCKET AV1



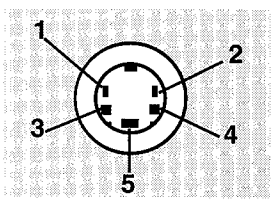
PIN No.	FUNCTION
1	AUDIO OUT (RIGHT)
2	AUDIO INPUT (RIGHT)
3	AUDIO OUT (LEFT)
4	GROUND (AUDIO)
5	GROUND (BLUE)
6	AUDIO INPUT (LEFT)
7	BLUE INPUT
8	SWITCHING INPUT
9	GROUND (GREEN)
10	NOT USED
11	GREEN INPUT
12	NOT USED
13	GROUND (RED)
14	GROUND (BLANKING)
15	RED INPUT
16	STATUS (BLANKING) INPUT
17	GROUND (VIDEO)
18	GROUND (VIDEO)
19	COMPOSITE VIDEO OUTPUT
20	COMPOSITE VIDEO INPUT
21	GROUND

SCART SOCKET AV2



PIN No.	FUNCTION
1	AUDIO OUT (RIGHT)
2	AUDIO INPUT (RIGHT)
3	AUDIO OUT (LEFT)
4	GROUND (AUDIO)
5	NOT USED
6	AUDIO INPUT (LEFT)
7	NOT USED
8	SWITCHING INPUT
9	NOT USED
10	NOT USED
11	NOT USED
12	NOT USED
13	CHROMINANCE GROUND
14	NOT USED
15	CHROMINANCE INPUT S–VHS
16	NOT USED
17	GROUND (VIDEO)
18	GROUND (VIDEO)
19	COMPOSITE VIDEO OUTPUT
20	COMPOSITE VIDEO OR COMPOSITE LUMINANCE S–VHS
21	GROUND

S-VHS SOCKET



PIN	FUNCTION
1	Chrominance input
2	Luminance input
3	Chrominance ground
4	Luminance ground
5	Frame ground

HITACHI

Quick Setup Guide

Dear Hitachi Customer,

Welcome to the Quick Set Up Guide. This guide has been designed with YOU the customer in mind. The guide has easy to follow step by step instructions, and if followed correctly, will have you viewing your TV in a very short time.

Before attempting to set up your TV, take a few minutes to familiarise yourself with this Guide, this will help speed the set up process. ***Now please read the following important notes on TV installation.***

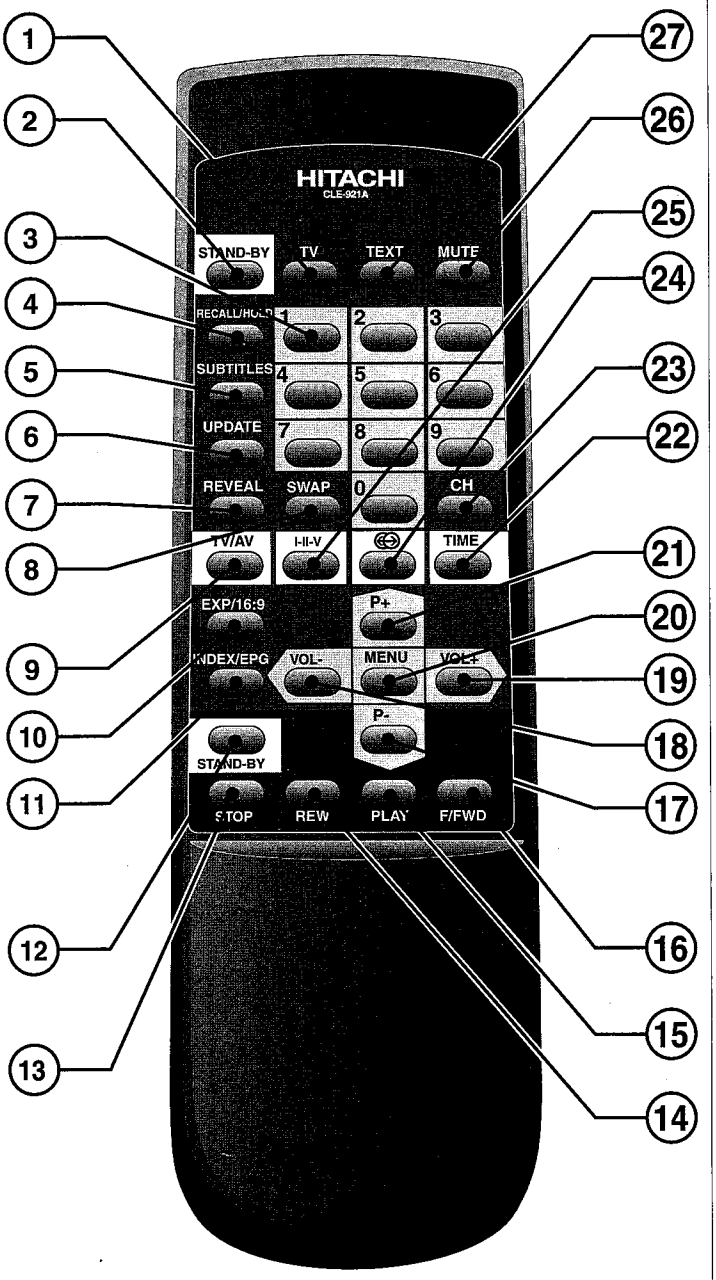
If you intend placing this TV into a cabinet or a wall alcove, please ensure there is at least a 100mm (10cm) gap to the sides, rear and top of the Television. This is to allow for adequate ventilation during TV operation.

Don't allow soft furnishings such as curtains to be draped over the TV whilst in operation.

Never place the TV on to a carpet during operation - this could obstruct ventilation slots on the base of the TV. Always place the TV on a flat surface , or if supplied, the stand accessory.

Failure to observe the above guidelines could result in serious overheating of your TV, or in extreme cases, even fire.

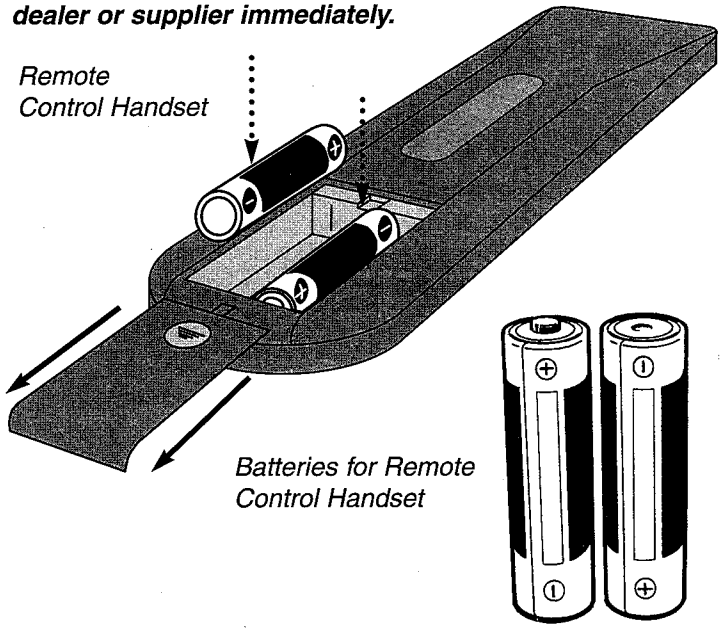
Below(left) is a numbered guide to the key layout of your handset. The guide refers to these keys during the setup process. Study the handset closely to familiarise yourself with the key layout



STEP 1

Remove the handset and batteries from their packaging. Remove the battery compartment cover on your handset, and insert the batteries supplied as shown below. Please ensure that the batteries are inserted correctly through observing the marked polarity positions on the batteries and the handset i.e. + to + and - to -.

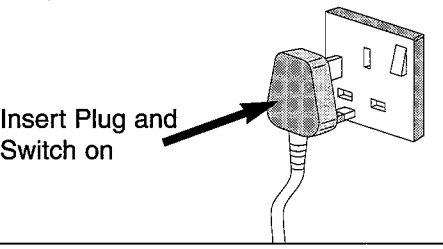
Note: If any of accessories supplied with this TV are damaged or appear to be missing, please contact your dealer or supplier immediately.



Please Note:
If a Stand Accessory is supplied with this TV, please refer to the instructions that came with the accessory with regards to assembly.

STEP 2

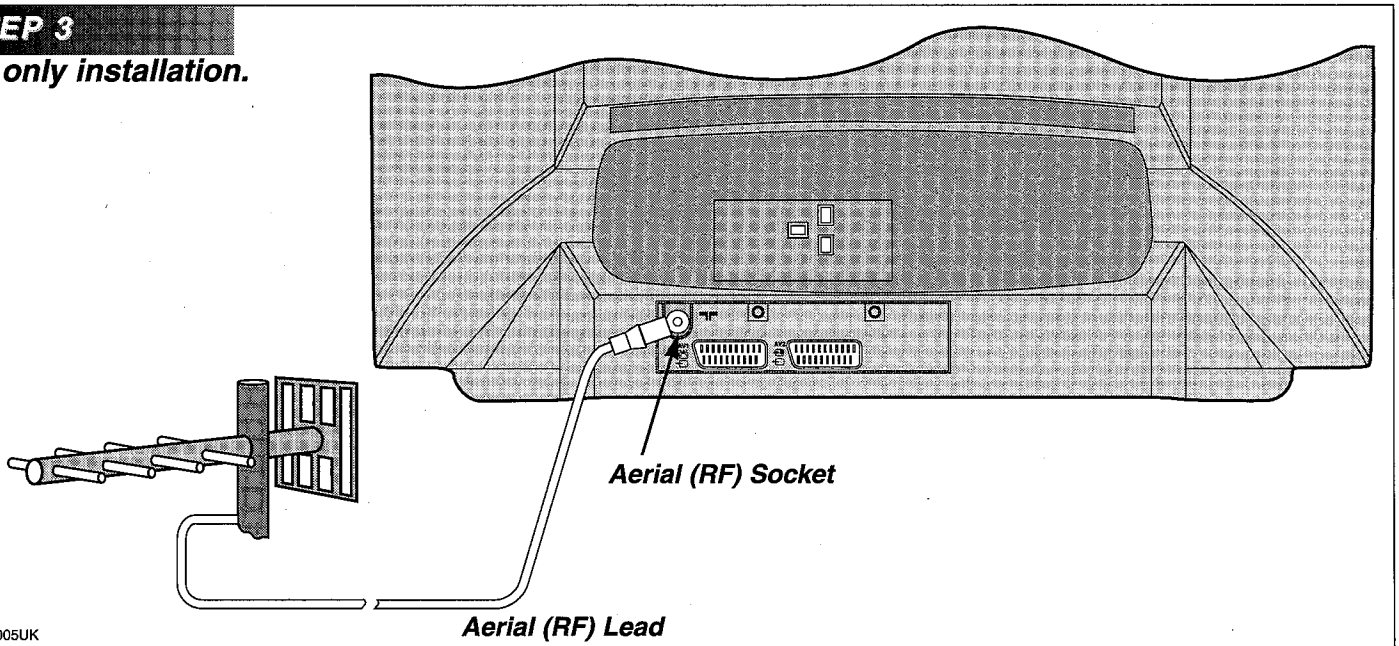
Connecting your TV to the mains socket.



56DR007UK

STEP 3

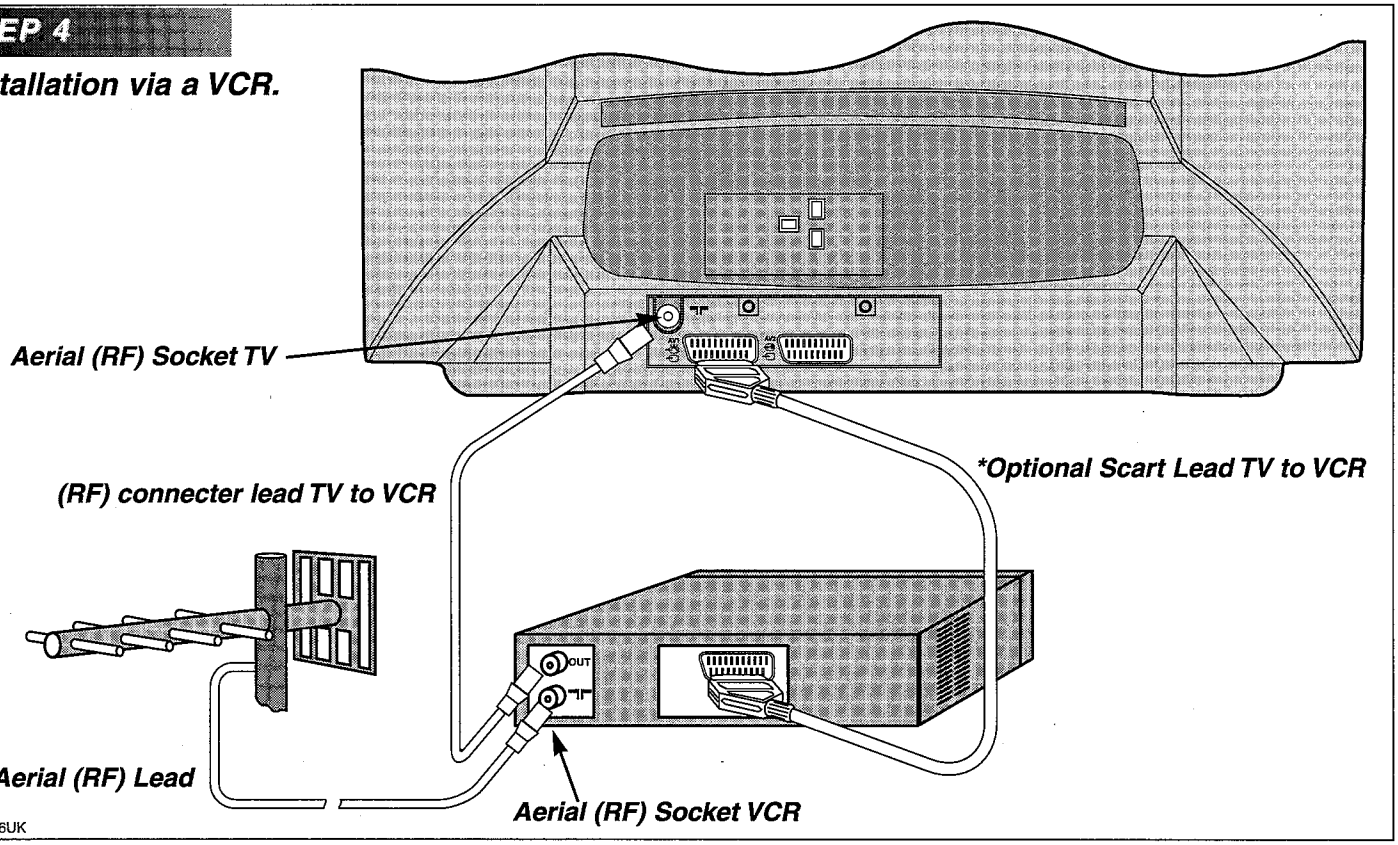
TV only installation.



56DR005UK

STEP 4

Installation via a VCR.



56DR006UK

*A scart lead should be fitted between your TV and VCR to enhance your picture and sound quality. Scart leads are essential if you have a stereo TV and VCR and wish to obtain stereo sound from your equipment. These leads can be purchased from your Hitachi dealer or any good 'High Street' electrical retailer.

STEP 5: Automatic Tuning

To automatically tune this TV to your local broadcasting stations follow the step by step guide below. Once the TV has found all your local stations, then they are automatically assigned into the following order: **1. BBC1; 2. BBC2; 3. ITV; 4. CH4/S4C; 5. CH5** ***(subject to availability);*** **6. Satellite.**

Alternatively, if you are familiar with local broadcasting frequency or CH numbers, then these can be entered manually. Please refer to the Manual Tuning Procedure section on the main Instruction Booklet

IMPORTANT NOTE: If you have a VCR or a Satellite receiver connected to this TV please ensure that they are switched on before Autotune commences. In the case of a VCR, insert a pre-recorded tape and begin playback of your equipment. With a Satellite receiver, select Sky News. These measures ensure your equipment is tuned in during the AUTOTUNE procedure. (Satellite equipment installation is explained on Page 18 and 19 of the main manual).

If the INSTALL menu is not displayed at this stage, follow the AUTOMATIC TUNING PROCEDURE on page 9 of the Main Manual.

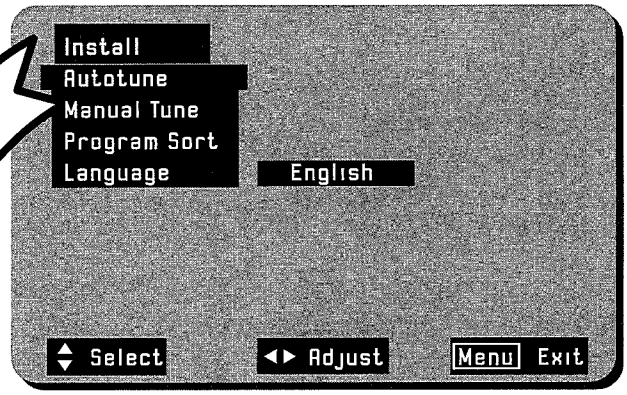
After the TV is first switched on, the INSTALL menu is shown (top right).

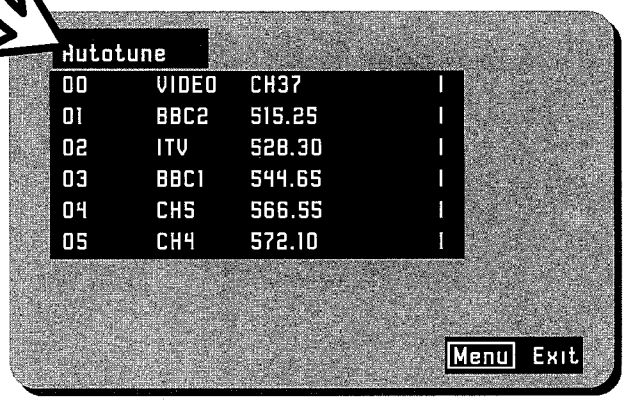
Now use keys 17 or 21 to select AUTOTUNE.

Use either key 18 or 19 to begin AUTOTUNE.

The TV will now search for all broadcasts available in your area.

When AUTOTUNE is complete press MENU to EXIT or follow STEP 6.

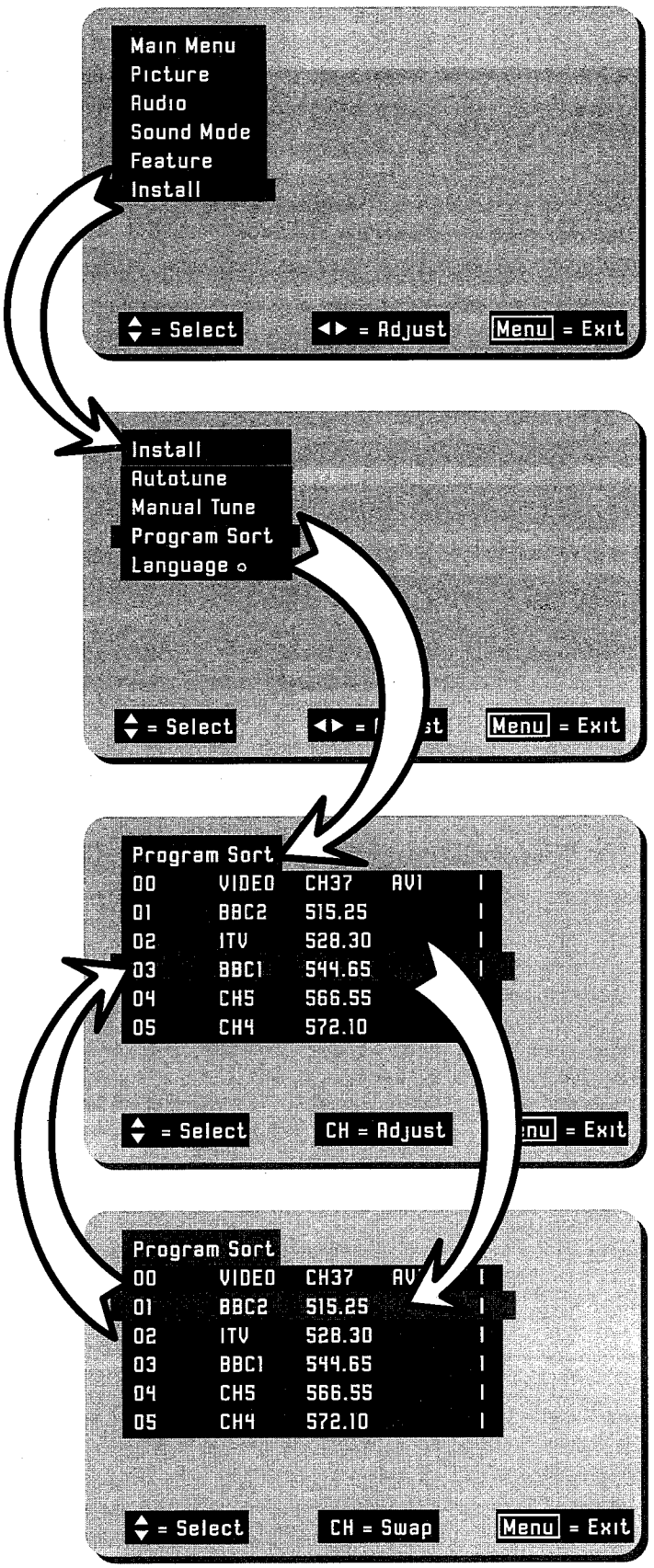




Completed Autotune example.

STEP 6: Program Sort

The PROGRAM SORT menu allows the user to swap programme numbers from one location to another. If necessary follow the steps below.



In this example ITV on Program 2 has been selected so that it may be swapped with program 3 (BBC1).

[From STEP 5] Press MENU key to exit AUTOTUNE.

Use cursor key 17 or 21 to select PROGRAM SORT and press cursor key 18 or 19 to enter .

The PROGRAM SORT menu is displayed.

Use cursor key 17 or 21 to highlight Program to change (example shows Program 3 BBC1)

Press CH key (23) to select [select bar turns RED in colour]

Now use cursor key 17 or 21 to highlight Program to be replaced (example shows Program 1 BBC2)

Once highlighted press CH key once more to confirm selection [select bar returns to BLUE]

Repeat above to swap other programs, or repeatedly press MENU key 20 to return to TV operation.

HITACHI ENVIRONMENTAL NOTICE

The Environment and You

HITACHI are signatories to the commitment made by the Consumer Electronics Industry on Reducing Energy Consumption by Televisions and Video Recorders in Standby.

HOW YOU CAN CONTRIBUTE TO THE ENVIRONMENT BY HELPING TO REDUCE ENERGY CONSUMPTION AND WASTE!

Even though your TV has a low standby power consumption, you can reduce waste to zero if you switch off the set at the mains when it is not intended to be used for long periods i.e. for an Hour or so. TV sets should certainly be switched off overnight or when you are away from home. Other factors should also be considered when operating your TV. Reducing volume settings to sensible levels can reduce power consumption as well as reducing noise pollution, and reducing the contrast can also provide a more pleasing picture in lower ambient lighting conditions as well as reducing power consumption.

Hitachi Home Electronics (Europe) Ltd. Manufacturing Site in Wales is a BSI Registered Company, and has been assessed to ISO 9001 Quality Management Standard, certificate number FM 32366 and the Environmental Quality Management Standard ISO 14001, certificate number EMS 36168, under which your Television has been manufactured.

The paper used for this Operating Guide has been produced from sustainable forests, part of Hitachi's on going commitment to the global environment.

Use the boxes provided below to record your TV's Model and Serial Nº (these are found on the rating plate located on the rear of the TV). Also, record where and when your purchased this TV. This information will speed any future queries you may have and should be used in all correspondence with Hitachi service centres.

Model:-	***Serial Nº:-***	***Dealer/Store:-*** ***Date Purchased:-***

HITACHI

Hitachi, Ltd., Tokyo, Japan
International Sales Division,
THE HITACHI ATAGO BUILDING,
Nº15 - 12 Nishi Shinbashi, 2 - Chome,
Minato-Ku, Tokyo105, Japan.
Tel. 3 32581111

HITACHI HOME ELECTRONICS (EUROPE) Ltd.
Hitachi House, Station Road, Hayes,
Middlesex UB3 4DR
UNITED KINGDOM
Tel. 0181 849 2000

HITACHI SALES (HELLAS) S.A.
91, Falirou Street,
117-41 Athens,
GREECE
Tel. 01-924-2620

HITACHI SALES EUROPA GmbH
Am Seestern 18,
40547 Düsseldorf,
GERMANY
Tel. 0 211 529150

HITACHI SALES IBERICA, S.A.
Gran Via Carlos Tercero. 101,1 - 1
Barcelona 08028
SPAIN
Tel. 3- 330.86.52

HITACHI SALES ITALIANA SPA
Via Gulli n.39
20147 MILANO
ITALY
Phone: 0039-2-487861

HITACHI SALES SCANDANAVIA AB
Domnarvsgatan 29 Lunda, Box 62
S-163 91 Spånga
SWEDEN
Tel. 08 621 8250

HITACHI FRANCE (RADIO-T.V.-ELECTRO-MENAGER) S.A.
4, Allée des Sorbiers,
Parc d'activité du Chêne,
BP 45
69671 Bron cedex,
FRANCE
Tel. 72 14-29-70

ITEM n.v/s.a.
Distributeur exclusif pour le Bénélux
Exclusief verdeler voor Benelux
Uco Tower - Bellevue 17
B-9050 Gent
BELGIUM
Tel. (32) 09-230.48.01

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